

14SB, 14SB^s, and 14SE 21-Inch Walk-Behind Rotary Mowers



JOHN DEERE

OPERATORS MANUAL

14SB, 14SB^s, and 14SE 21-Inch
Walk-Behind Rotary Mowers

OMGC00095 J6 English

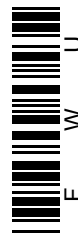
14SB (SERIAL NO. 470001-)
14SB^s (SERIAL NO. 470001-)
14SE (SERIAL NO. 430001-)

John Deere
Worldwide Commercial and
Consumer Equipment Division

OMGC00095 J6

North American Version

LITHO IN U.S.A.
ENGLISH



INTRODUCTION

THANK YOU for purchasing a John Deere product.

Read this manual thoroughly. Failure to do so could result in personal injury or equipment damage.



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

This manual should be considered a permanent part of your machine and should remain with the machine when you sell it.

Measurements in this manual are metric units and their U.S. customary equivalents. 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 arrow (- - - ➔) it indicates the part it is pointing to is hidden.

Record identification numbers below. Be sure to record all the numbers to help in tracing the machine if it is stolen. You also need to give these numbers to your dealer when you order parts.

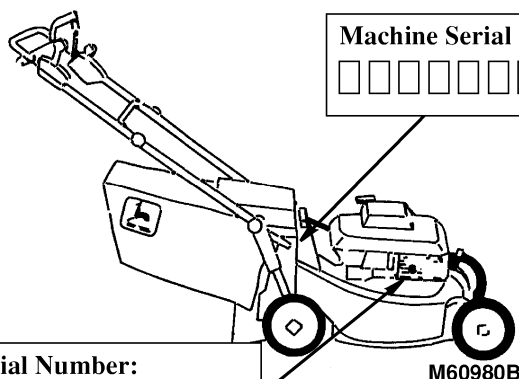
Date of Purchase:

Dealer Name:

Phone:

Machine Serial Number:

Engine Serial Number:



M60980B

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All information, illustrations and specifications in this manual are based on the latest information at the time of publication. The right is reserved to make changes at any time without notice.

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Horicon, WI
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NOTES

SAFETY SIGNS

Safety-Alert Symbol

Read and recognize safety information. Be alert to the potential for personal injury when you see this safety-alert symbol.

On your machine safety labels, the words DANGER, WARNING, and CAUTION are used with this safety-alert symbol. DANGER identifies the most serious hazards. In this manual, the word CAUTION and this symbol call attention to safety messages.

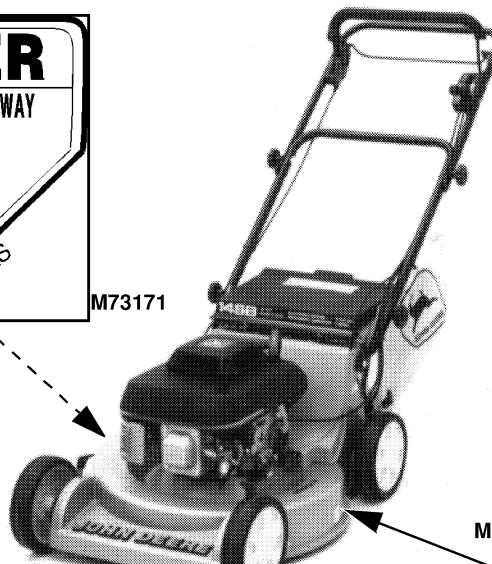


Machine Safety Labels



Right Side of Deck

M73171



M60969



SAFETY SIGNS



SAFETY SIGNS

 CAUTION	• Pick up objects that blade may hit and throw • Keep children and bystanders far away • Stop engine before adjusting cutting height • Read operator's manual



M60969

Certification Label

This OPEI label on your mower indicates that this model has been certified by an independent laboratory for compliance with American National Standard B-71.1-1990, "Safety Specifications" for Power Lawn Mowers, Lawn and Garden Tractors, and Lawn Tractors.



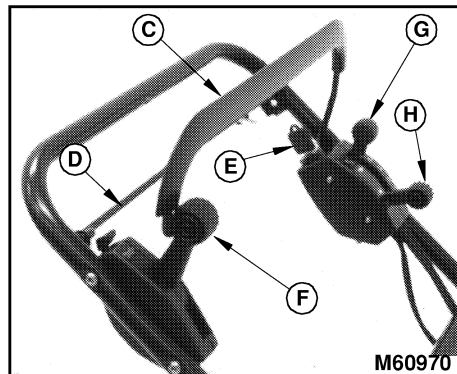
CONTROLS

Engine Controls



- A - Starter Handle..... Pull to start engine
B - Fuel Shutoff Knob Controls fuel flow to engine

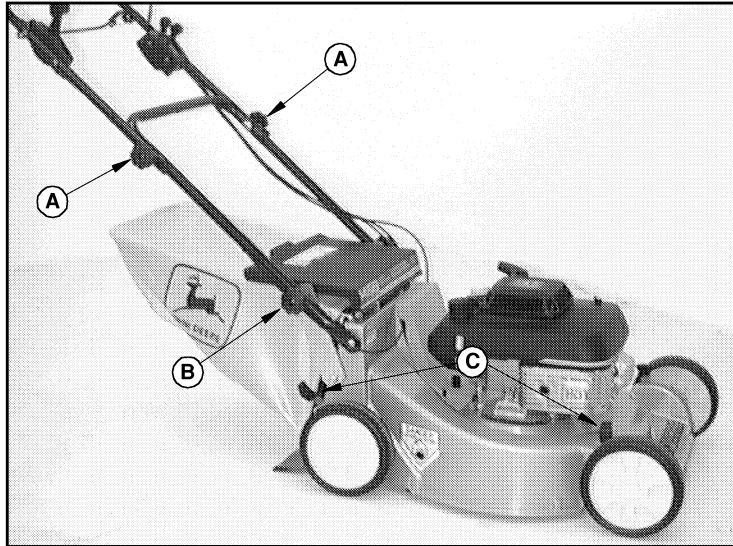
Handle Controls



- C - Blade Lockout and Stop Lever Stops blades
D - Traction Clutch Lever Engages traction
E - Key (Model 14SE).....Starts engine
F - Blade Engagement Lever Starts blades
G - Gear Shift LeverChanges gears
H - Throttle Lever Controls engine speed

CONTROLS

Handle and Cutting Height Controls



- A - Fold Handle Knobs Folds handle
- B - Handle Height Knob Adjusts handle height
- C - Cutting Height Levers Adjusts cutting height

OPERATING

SAFETY

Operate Safely



- Inspect machine before you operate. Be sure hardware is tight. Repair or replace damaged, badly worn, or missing parts. Be sure proper guards, plates, grass catcher, or other safety protective devices are in good condition and fastened in place. Make any necessary adjustments before you operate.
- Clear work area of objects that might be thrown. Keep people and pets out of the work area. Stop machine if anyone enters the area.
- If you hit an object, stop the machine and inspect it. Make repairs before you operate. Keep machine properly maintained and in good working order.
- DO NOT leave machine unattended when it is running.
- Only operate during daylight or with good artificial light.
- Be sure of footing. Be especially careful when you pull machine backwards with the engine running.
- Mow across a hill - not up and down. Be careful when you change direction on a slope. Do Not mow excessively steep slopes.
- DO NOT mow wet grass. Reduced traction could cause you to slip.
- Keep a firm hold on the machine handle.
- DO NOT wear radio or music headphones while operating the machine. Safe operation requires your full attention.
- DO NOT operate mower if you are under the influence of drugs or alcohol.

OPERATING

Rotating Blades are Dangerous - Protect Children and Prevent Accidents



PROTECT CHILDREN:

- Never assume that children will remain where you last saw them. Children are attracted to mowing activity, stay alert to the presence of children.
- Keep children in the house when you are operating the machine.
- Turn machine off if a child enters the area.
- Use extra care when you come to blind corners, shrubs, trees, or other objects that may block your vision.
- DO NOT let children or an untrained person operate the machine.

HELP PREVENT SERIOUS OR FATAL ACCIDENTS:

- Be alert at all times, people especially children can move quickly into the area before you know it.
- Stop the blade when crossing gravel drives, walks, or roads.
- Shut off blades when you are not mowing.
- Keep hands, feet, and clothing away from rotating blades.

Wear Appropriate Clothing



- Wear close fitting clothing and safety equipment appropriate for the job.
- Do Not operate the equipment when barefoot or wearing open sandals. Always wear substantial footwear.
- Loud noise can cause impairment or loss of hearing, wear a suitable protective device such as earplugs.

OPERATING

ADJUSTMENTS

Adjusting Cutting Height



CAUTION: Before you adjust cutting height:
• STOP ENGINE.

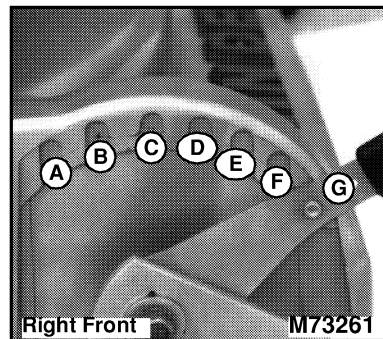
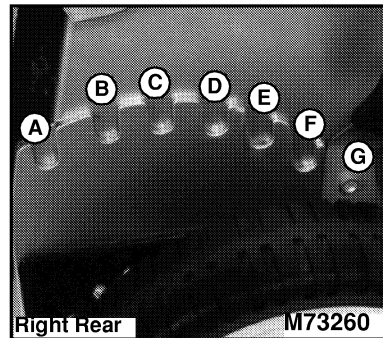
IMPORTANT: Adjust all levers to same height except for **LOWEST** cutting height (A):

- Put front wheel levers in 13 mm (1/2-in.) notch: First rear notch.
- Put rear wheel levers in 25 mm (1-in.) notch: Second rear notch.

To help move rear wheel levers:

1. Lift lower handlebar slightly with one hand to take some weight off wheel.
2. Move lever to desired position with other hand.

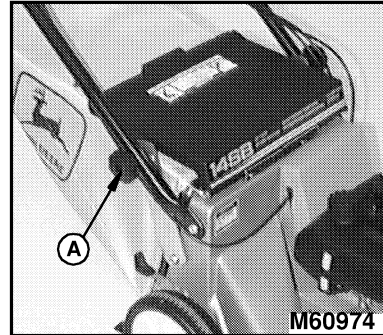
Key	Cutting Height Adjustments In mm (Inches)
(A)	13 mm (1/2-in.)
(B)	25 mm (1-in.)
(C)	38 mm (1-1/2-in.)
(D)	50 mm (2-in.)
(E)	64 mm (2-1/2-in.)
(F)	75 mm (3-in.)
(G)	90 mm (3-1/2-in.)



OPERATING

Adjusting Handle Height

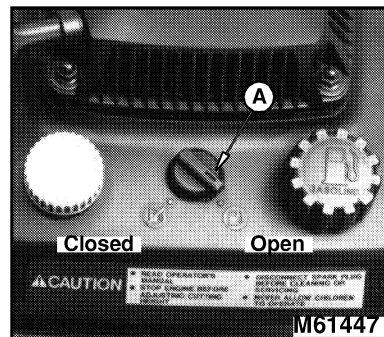
1. Remove knob (A) and bolt from each side.
2. Move handle to desired height.
3. Move bracket so a square hole in bracket lines up with handle hole.
4. Install a bolt through same square hole on each side.
5. Install knobs.



Using Fuel Shutoff

Turn the fuel shutoff knob so pointer (A) is toward the OPEN position when operating mower.

Turn the fuel shutoff knob (A) so pointer is toward the CLOSED position when you are not operating mower.



OPERATING

Electric Starting (14SE)



CAUTION: To avoid injury:



Keep hands, feet and clothing away from blade.



Engine exhaust fumes can cause sickness or death.
Run engine only in a ventilated area.

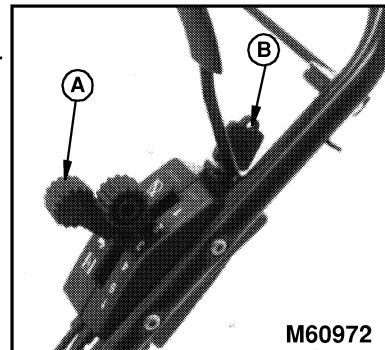
IMPORTANT: To help prevent damage to starter and/or blade brake clutch, do not start engine when blade is under load, such as, in heavy grass.

1. Move throttle lever (A):

- COLD ENGINE: Push throttle lever (A) to the CHOKE  position.
- WARM ENGINE: Push throttle lever to the FAST  position.

NOTE: If battery is low:

- Start engine with recoil starter.
- Charge battery.



2. Turn key (B) to the START position:

- Crank engine 5 seconds.
- If engine does not start, wait 10 seconds.
- Crank engine again 5 seconds.
- Repeat this procedure if necessary.

3. Release key when engine starts.

4. Pull throttle lever back to the HALF-THROTTLE position.

5. Mow with throttle lever in the FAST  position.

OPERATING

Manual Starting



CAUTION: To avoid injury:



Keep hands, feet and clothing away from blade.



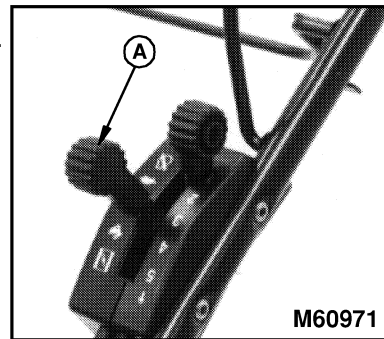
Engine exhaust fumes can cause sickness or death.

Run engine only in a ventilated area.

IMPORTANT: To help prevent damage to recoil starter and/or blade brake clutch, do not start engine when blade is under load, such as, in heavy grass.

NOTE: Follow steps listed below on the 14SE if battery power is too low to crank engine.

1. Move throttle lever (A):
 - COLD ENGINE: Push throttle lever (A) to the CHOKE  position.
 - WARM ENGINE: Push throttle lever to the FAST  position.
2. Put your foot on foot pad on top, left side of deck.
3. Pull starter handle until you feel resistance. Then pull fast and steady.
4. When engine starts, return rope slowly.
5. Pull throttle lever back to the HALF-THROTTLE position.
6. Mow with throttle lever in the FAST  position.



OPERATING

Blade Operation



CAUTION:



Keep hands, feet and clothing away from blade when engine is running. If blade does not stop within 3 seconds after you release blade stop lever, see your John Deere dealer.

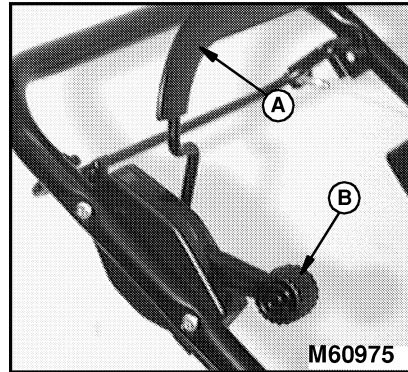
DO NOT ENGAGE blade in heavy grass or engine may STOP.

To ENGAGE blade:

- Pull and hold lever (A) against handle.
- Push lever (B) forward until it latches.

To DISENGAGE blade:

Release lever (A).



CAUTION: If lever (B) does not latch, do not tape it or hold it in the LATCH position. See your John Deere dealer.

DO NOT tape lever (A) to handle.

OPERATING

Forward Travel

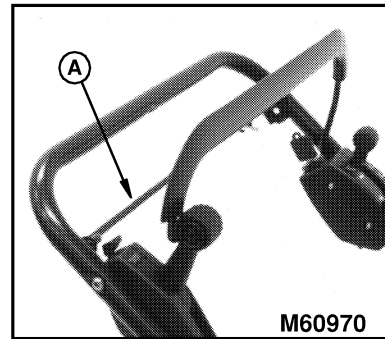
To Travel Forward:

Pull lever (A) to handle and hold it there.

To Stop Forward Travel:

Release lever.

NOTE: Rear wheels should make a clicking noise when you push mower forward. This means drive train is operating correctly.

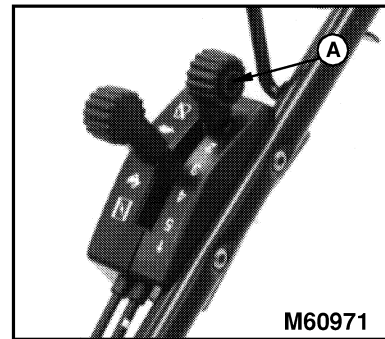


Travel Speeds

To change travel speed:

- STOP FORWARD TRAVEL.
- Move gear lever (A) to desired position.
- ENGAGE traction clutch lever.

Gear	Travel Speed kmh/(mph)
1	1.9 (1.2)
2	3.0 (1.9)
3	3.7 (2.4)
4	4.6 (2.9)
5	6.6 (4.1)



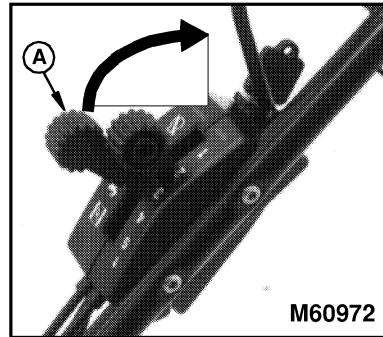
OPERATING

Stopping Engine



CAUTION: Key for 14SE will NOT STOP the engine.

1. Pull throttle lever (A) back to the STOP position.
2. Turn fuel shutoff knob to the CLOSED position when you are done mowing.

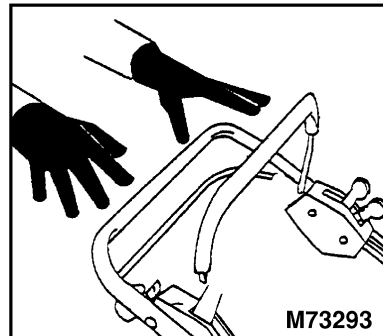


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Emergency Stopping

Release handle and levers:

- Mower will stop.
- Blade will stop.



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IMPORTANT: If blade does not stop within 3 seconds after you release blade stop lever, see your John Deere dealer

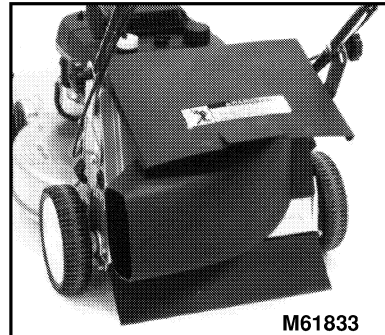
OPERATING

Using Discharge Chute (Optional)



CAUTION: Do not operate mower unless grass bag, chute (optional), or mulch plug (optional) is held in place by door.

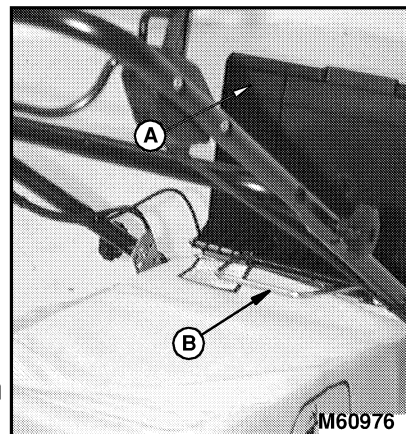
1. Stop engine. Lift and hold door.
2. Remove grass bag.
3. Install chute. Lower door to hold chute in place.



Using Grass Bag

1. Lift and hold door (A).
2. Grasp handle (B). Lift bag on or off mower.
3. Release door.

NOTE: Bag may wear and deteriorate. Check condition of bag often. Use a John Deere bag or equivalent to comply with safety specifications.



OPERATING

Using Mulch Blade (Optional)

See your John Deere dealer for Mulch Plug Kit. The kit includes plug, blade, decal, and instructions.

Mulch blade works equally well with mulch plug, chute, or bag. There is no need to change blade when you change attachment.

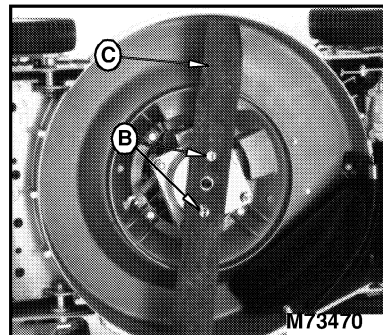
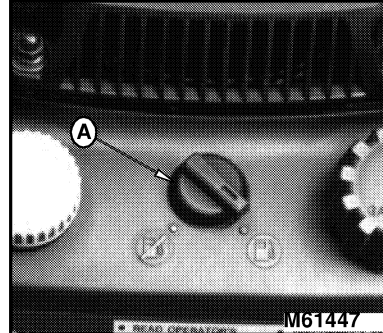


CAUTION: Service mower safely:

- If you remove blade, be sure fuel tank is almost empty.
- STOP engine. Let it cool.
- Disconnect spark plug wire.
- Wear gloves or wrap blade with rag.

IMPORTANT: To help prevent air cleaner damage and hard starting, turn mower on its RIGHT SIDE.

1. Disconnect spark plug wire.
2. Turn fuel shutoff knob (A) to the CLOSED position.
3. Turn mower on its RIGHT SIDE.
4. Remove bolts (B) and blade (C).
5. Install mulch blade with wings pointing upward.
6. Tighten bolts to 48 N•m (35 lb-ft).
7. Lower mower to the floor.



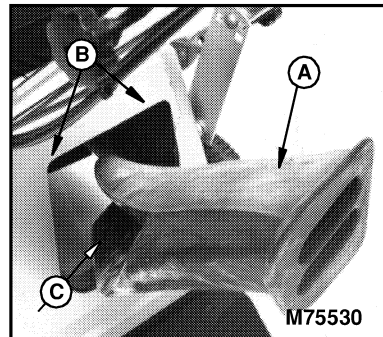
OPERATING

Using Mulch Plug (Optional)



CAUTION: Do not operate mower unless grass bag, chute, or plug is held in place by door. Before you unplug mower or remove mulch plug, STOP engine.

1. Lift and hold door.
2. Install plug (A) in opening (B) with (C) facing left.
3. Push and turn plug counterclockwise until it is seated.
4. Lower door.

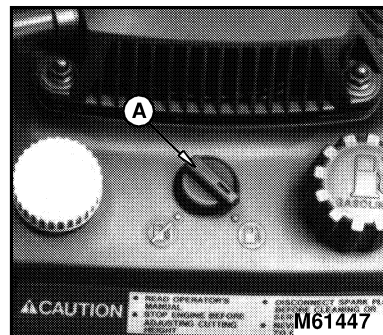


TRANSPORTATION

Transporting Mower

IMPORTANT: Turn fuel shutoff knob to the CLOSED position before transporting mower.

To help prevent fuel from flowing into the engine when transporting mower, turn the fuel shutoff knob (A) to the CLOSED position.



LAWN CARE

Mowing Tips

Before mowing, be sure deck is leveled and mower wheels are in the proper position.

When you mow an area for the first time, travel SLOW and cut HIGH so you can:

- Learn the terrain.
- Learn the best mowing pattern.
- Help prevent hitting objects hidden in the grass.

Mow grass only when it is dry: Wet grass may plug mower and leave a trail of grass clumps.

Mow grass often: Short grass clippings will decay quickly.

Mow at full throttle for best performance.

Use a travel speed that fits the conditions:

- Travel SLOW when you mow thick, tall grass.
- FAST travel or sharp turns may produce stripes or uneven cut. Slow down. Short, fast turns may scuff ground and pull grass out by the roots.
- Travel at MODERATE speed when you mow a thin stand of grass.

Mow often enough so you cut only 1/3 of grass blade in one mowing. Cutting grass too short may kill grass and let weeds grow easily.

See your John Deere dealer for blades that will best fit your mowing conditions.

Aerate lawn to help stimulate soil organisms and root growth.

LAWN CARE

To Avoid Scalping

- If mower scalps easily, cutting height may be too low for ground conditions—especially on lawns with many small mounds and ridges.
- Mow over ridges and through shallow ditches straight-on, not at an angle.

Keep blade sharp: A dull blade will tear grass; tips of grass will then turn brown.

Bagging Tips

For best performance, bagger needs good airflow. To help increase airflow:

- Keep underside of deck and chute clean.
- Cut grass high.
- Mow at full throttle.
- Clean bag often with water from garden hose, from outside to inside of bag. Let bag dry before use.

IMPORTANT: DO NOT leave clippings in bag:

- **Moisture may damage bag.**
- **Damp clippings are a fire hazard.**

Check clippings in bag often. When bag is full:

- Mower may leave a trail of clippings.
- Clippings may blow to side.
- Top of bag will deflate.

LAWN CARE

Bagging and Composting

Many communities will no longer haul lawn clippings and leaves to landfills. Bagging and composting clippings and leaves is one way to solve this problem.

Clippings from grass bag may also be used as mulch, or sheet compost, between garden rows and around trees and shrubs. This mulch will:

- Keep weeds from growing.
- Help soil keep moisture.
- Add nutrients to soil as it decays.
- Help keep soil temperature down during hot weather.

You may compost clippings and leaves in various ways. See garden magazines or clubs for information, or go to your local library for help.

Finished compost is crumbly. It is rich in soil nutrients, and can be spread on your lawn. Compost may also be worked into soil. It adds humus to soil and improves soil texture, making soil looser and easier to work.

LAWN CARE

Mulching Tips

Advantages:

- You do not have to rake or bag grass or leaves.
- Lawn holds moisture better during dry weather.
- Soil temperatures stay down during hot weather.
- Mulch adds nutrients to soil, and reduces need for fertilizer.

Mulching does not make thatch. Frequent shallow watering and fertilizer application produce thatch from roots that grow close to surface.

Be careful when you mulch leaves in Fall. Grass needs sunlight in Fall to help store food for Winter. A thick layer of mulched leaves can prevent sunlight from getting to grass and smother it. You may have to mow with grass bag to remove this layer.

Mulch only when the grass and leaves are dry.

Mulching wet or damp grass or leaves may cause problems:

- Clippings and leaves may build up on the underside of the mower deck.
- Cut grass and leaves may form clumps.
- Clippings and leaves may not be cut into small bits.
- Engine may work harder and use more fuel.

Cut only top 1/3 of grass at a time.

Use a different mowing pattern each time you mow. Overlap mowing paths 50–100 mm (2–4 in.).

Slow down. Mulching takes more power.

Keep blades sharp. Check them often.

LAWN CARE

After Mowing

- STOP engine. Let it cool. This will help prevent starting a fire when you store the mower.
- CLOSE fuel shutoff valve.
- Remove and shake bag to remove all clippings. This will help to prevent deterioration of bag and starting a fire.
- Clean top of deck, engine, and chute with brush or compressed air, if possible. This will help to prevent buildup and starting a fire.

IMPORTANT: To help extend clutch life, wait at least 30 minutes after mowing before cleaning under the deck with water. After cleaning with water, start the engine and engage the blade for about 15 seconds to “spin dry” the clutch. If you need to clean under the deck immediately after mowing use a scraper, NOT water.

- Spray under deck with water under pressure to remove corrosive lawn chemicals and buildup. (See IMPORTANT information above.)
- Install bag. Put mower in safe storage.

REPLACEMENT PARTS

WE RECOMMEND JOHN DEERE quality parts and lubricants, available at your John Deere dealer.

PART NUMBERS MAY CHANGE, use part numbers listed below when you order. If a number changes, your dealer will have the latest number.

WHEN YOU ORDER PARTS, your John Deere dealer needs your machine serial number. This is the number you have recorded on the inside front cover of this manual.

ITEM	PART NUMBER
Air Cleaner Paper Element	M79451
Belt	M77167
Standard (High Lift) Blade	M77178
Mulch Blade	M125413
Spark Plug	Champion RN11YC or NGK-BP5ES
Oil Filter	AM107423
Battery	GC00017

(Part numbers are subject to change without notice. Part Numbers may be different outside the U.S.A.)

SERVICE MACHINE SAFELY

Practice Safe Maintenance



- Understand service procedure before doing work. Keep area clean and dry.
- Never lubricate, service, or adjust machine while it is moving. Keep safety devices in place and in working condition. Keep hardware tight.
- To prevent them from getting caught, keep hands, feet, clothing, jewelry, and long hair away from any moving parts.
- Before servicing machine, disengage all power and stop the engine. Let engine cool.
- Securely support any machine elements that must be raised for service work.
- Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any buildup of grease, oil, or debris.
- Unauthorized modifications to the machine may impair its function and safety.

Wear Appropriate Clothing



- Wear close fitting clothing and safety equipment appropriate for the job.
- Loud noise can cause impairment or loss of hearing, wear a suitable protective device such as earplugs.
- Do not wear radio or music headphones while servicing the machine. Safe service requires your full attention.

SERVICE MACHINE SAFELY

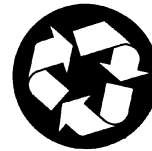
Avoid Injury from Contacting Blades



Before you unplug or adjust machine:

- STOP the engine.
- Wait for blades to STOP.
- Keep hands, feet and clothing away from blades when engine is running.

Handling Waste Products



- Waste products, such as, used oil, fuel, 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 John Deere 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. See your John Deere dealer for the MSDS on chemical products used with your machine.

SERVICE

Service Intervals

BEFORE EACH USE	• Check oil level.
AFTER EACH USE	• Clean the mower.
FIRST 5 HOURS	• Change oil. • Change filter (Optional).
25 HOURS	• Clean air cleaner foam element. • Tighten blade bolts. • Lubricate rear axle bearings. • Clean and gap spark plug. • Clean belt and transmission area. • Change engine oil, (minimum once a season).
50 HOURS	• Change oil filter.
100 HOURS	• Adjust blade brake clutch cable. • Replace air cleaner paper element.

Service Record

DATE	SERVICE PERFORMED

SERVICE

Avoid Fumes



CAUTION: Engine exhaust fumes can cause sickness or death:



- If it is necessary to run an engine in an enclosed area, use an exhaust pipe extension to remove the fumes.
- Always try to work in a well ventilated area.

Engine Oil

Use oil viscosity based on the expected air temperature range during the period between oil changes.

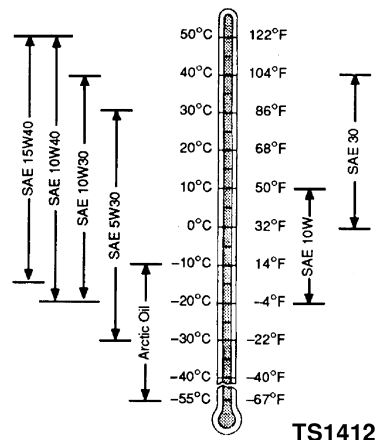
The following oil is preferred:

- John Deere PLUS-4®

Other oils may be used if they meet one of the following:

- API Service Classification SG
- API Service Classification SF
- CCMC Specification G4

Oils meeting Military Specification MIL-L-46167B may be used as arctic oils.



SERVICE

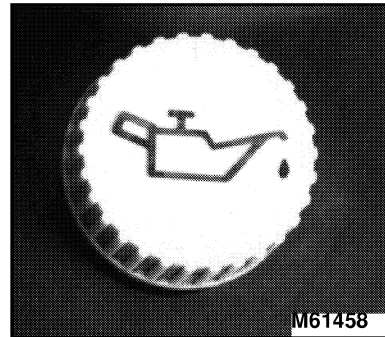
Checking Engine Oil Level



CAUTION: Before you check or add oil, STOP engine. Let it cool.

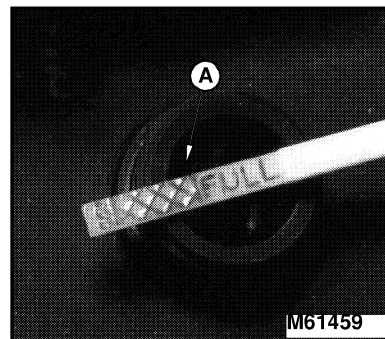
IMPORTANT: Change oil after first 5 hours of operation.

1. Stop engine. Put mower on a level surface.
2. Remove dipstick and wipe it with a clean cloth.
3. Install dipstick:



IMPORTANT: Do not tighten dipstick, let threads rest on the top of tube.

4. Remove dipstick. Check oil level. Oil level MUST BE between ADD and FULL marks. If not, pour oil into dipstick tube to bring level to FULL mark (A).
5. Install and tighten dipstick.



SERVICE

Changing Engine Oil



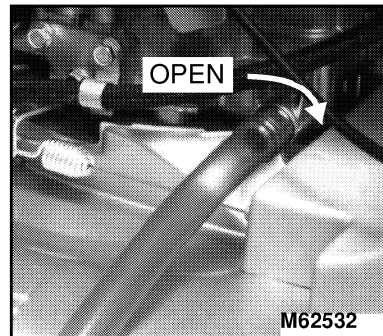
CAUTION: Used oil may harm environment and people if it is dumped on the ground or into a drain or a body of water. Call your local Recycling Center or John Deere dealer to learn how to recycle used oil.

NOTE: An oil filter kit is available for some models at your John Deere dealer. If you install kit, change oil every 50 hours.

IMPORTANT:

- Change oil after first 5 hours of operation. If you do not run mower 25 hours during mowing season, change oil before you store mower.
- Do not overtighten drain fitting or you may damage it.

1. Install drain hose (included with mower) on oil drain fitting.
2. Turn fitting to the left to open drain. Drain oil into a container.
3. Tighten fitting. Remove hose.
4. Pour 0.6 L (20 oz) oil into dipstick tube.
5. Install dipstick. **DO NOT TIGHTEN IT: LET THREADS REST ON TOP OF TUBE.**
6. Check oil level. If necessary, add oil to bring level to the **FULL MARK.**
7. Install and tighten dipstick.



SERVICE

Changing Oil Filter (Optional-not available on all Models)

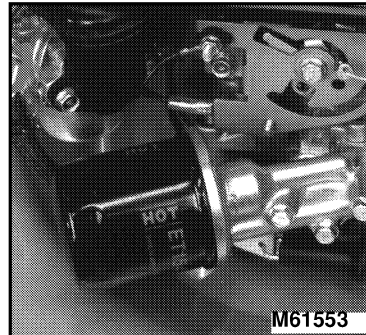


CAUTION: A used oil filter may harm environment and people if it is dumped on the ground or into a drain or a body of water. Call your local Recycling Center or John Deere dealer to learn how to dispose of a used oil filter.

Before you remove filter:
STOP engine. Let it cool.

IMPORTANT: Change oil and filter after first 5 hours of operation. After that, change oil and filter every 50 hours or yearly, whichever comes first.

1. Drain oil.
2. Remove filter by turning it to the left.
3. Apply a film of clean engine oil to new filter gasket.
4. Install filter by turning filter to the right until gasket contacts filter base. Tighten filter by hand 3/4 turn more.
5. Pour new oil into dipstick tube.
6. Run engine and check for leaks around filter.
7. STOP engine. Check oil level.
8. Install and tighten dipstick.



SERVICE

Cleaning Air Cleaner Foam Element



CAUTION: Before you remove elements:
• STOP engine. Let it cool.

- IMPORTANT:**
- If you operate the mower in dusty conditions, check and clean foam element at the end of each day's operation. Also check condition of paper element.
 - DO NOT run engine without elements. If foam or paper element is damaged, replace it.
 - DO NOT wash paper element.

1. Clean cover and area around it. Remove cover (A).

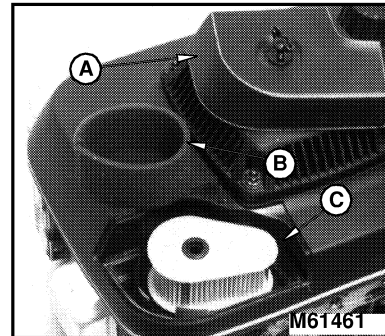
2. Remove foam element (B) from paper element (C).

3. Wash foam element in non-flammable solvent or warm water-detergent solution.

4. Rinse element. Let it dry.

5. Put 10–15 drops of clean engine oil on element. Squeeze element to distribute oil.

6. Inspect paper element. Install elements and cover.



SERVICE

Replacing Paper Element



CAUTION: Before you work on engine:
• STOP engine. Let it cool.

IMPORTANT: Under normal operating conditions, replace paper element every 100 hours.

- If you operate mower in very dusty conditions, check elements at end of each day's operation.
- Replace paper element when engine starts hard, begins to lose power, or runs rough. Check condition of element carefully.

Paper element **MUST BE** in good condition. Cleaning paper element could damage element. Do not use a damaged element or engine could be seriously damaged.

1. Clean cover and area around it. Remove cover (A).

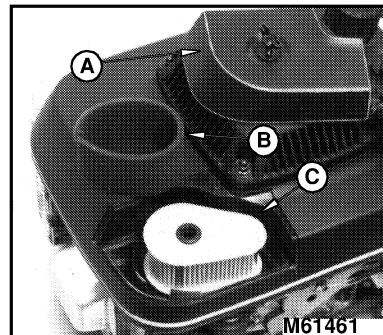
2. Remove foam element (B) from paper element (C).

3. Inspect paper element.

4. Replace an element:

- That is oily or sooty.
- With a break, hole, or damaged seal.
- If engine performance is poor.

5. Install elements and cover.



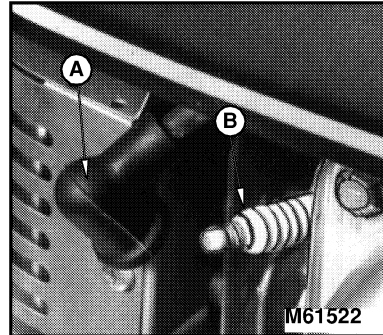
SERVICE

Cleaning and Gapping Spark Plug



CAUTION: Before you remove plug:
• STOP engine. Let it cool.

1. Disconnect spark plug wire (A). Remove plug (B).
2. Carefully wire brush carbon from plug. Do not clean it with abrasives in a machine.
3. Inspect plug for damage. Replace damaged plug.
4. Adjust gap to 0.76 mm (0.030 in.).
5. Install and tighten plug to 20 N•m (15 lb-ft).
6. Connect wire.

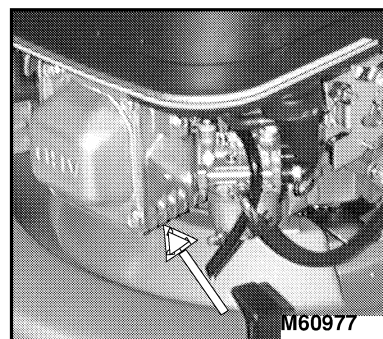


Cleaning Cooling Fins

IMPORTANT: Keep fins clean or engine may overheat.

Clean fins with a brush, rag, or compressed air.

Also, blow compressed air under the shroud.

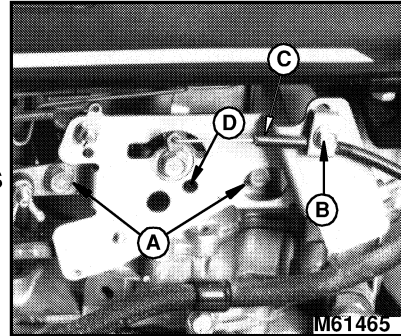


SERVICE

Adjusting Throttle Cable

IMPORTANT: Do not adjust screws (A) or you will change governor setting.

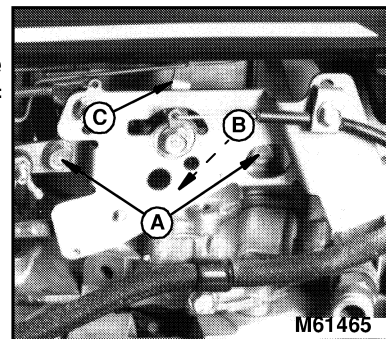
1. Push throttle lever to the FAST  position.
2. Loosen screw (B).
3. Adjust cable cover (C) until holes (D) are in line.
4. Tighten screw.



Adjusting Choke

IMPORTANT: Do not adjust screws (A) or you will change governor setting.

1. Adjust throttle cable.
2. Turn screw (B) (under plate) to the right until lever (C) begins to move. If lever moves when you first turn screw, back off screw and start Step 2 again.
3. Push throttle lever to the CHOKE  position.
4. Move lever (C) back and forth. There should be no free play. If necessary, repeat Step 2.



SERVICE

Adjusting Carburetor

NOTE: Carburetor is calibrated by the engine manufacturer and should not require any adjustments.

If engine is operated at altitudes above 1829 m (6,000 ft), some carburetors may require a special high altitude main jet. See your John Deere dealer.

Possible engine surging will occur at high rpm when the machine is in neutral ("N") and the blades are disengaged. This is a normal condition due to the emission control system.

If engine is hard to start or runs rough, check the TROUBLESHOOTING section of this manual.

After performing the checks in the troubleshooting section and your engine is still not performing correctly, contact your John Deere dealer.

SERVICE

Adjusting Traction Clutch

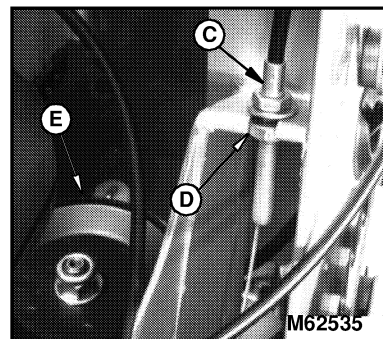
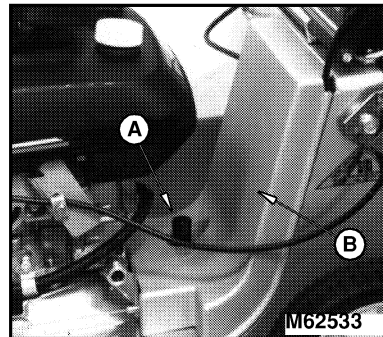
NOTE: Adjust clutch before 50 hours if mower slows as it goes uphill.



CAUTION: Do not operate mower without belt shield. Before you adjust clutch:

- STOP engine. Let it cool.
- Keep people and pets away from mower.
- Keep hands and tools away from belt area when engine is running.

1. Remove knob (A) and shield(B).
2. Loosen nut (C).
3. Turn nut (D) down 6 mm (1/4 in.).
4. Tighten nut (C).
5. Start engine.
6. ENGAGE traction clutch lever to check clutch action.
7. If clutch needs more tension, repeat Steps 2 and 3.
8. Make sure pulley (E) does not turn when engine is running and clutch lever is DISENGAGED. If pulley turns when engine is running, traction clutch cable is adjusted too tight.
9. STOP engine.



SERVICE

Adjusting Blade Brake Clutch



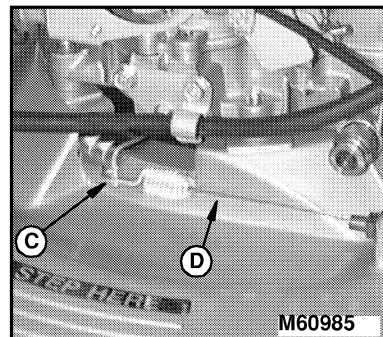
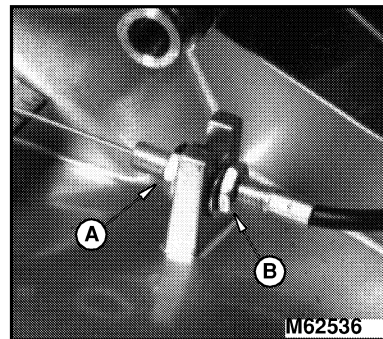
CAUTION: Do not operate mower unless belt shield is in place.

NOTE: Blade should stop within 3 seconds after you release blade stop lever. If not, adjust clutch.

1. Put blade engagement lever on handlebar all the way to the rear.

2. To adjust cable:

- Remove belt shield.
- Loosen nut (A).
- Pull threaded fitting to rear slightly to move blade clutch arm (C) to rear.
- Turn nut (B) against deck fork.
- Tighten nut (A).
- Make sure there is tension on cable (D), but that it is not too loose or too tight. This will give maximum blade brake clutch engagement.
- Install shield.



SERVICE

Grease

Use grease based on the expected air temperature range during the service interval.

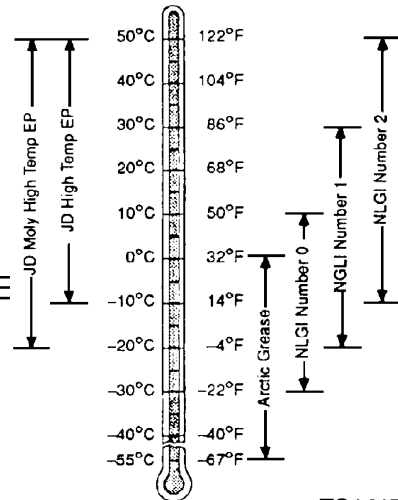
The following greases are preferred:

- John Deere MOLY HIGH TEMPERATURE EP GREASE
- John Deere HIGH TEMPERATURE EP GREASE
- John Deere GREASE-GARD™

Other greases may be used if they meet one of the following:

- SAE Multipurpose EP Grease with a maximum of 5% molybdenum disulfide.
- SAE Multipurpose EP Grease

Greases meeting Military Specification MIL-G-10924F may be used as arctic grease.

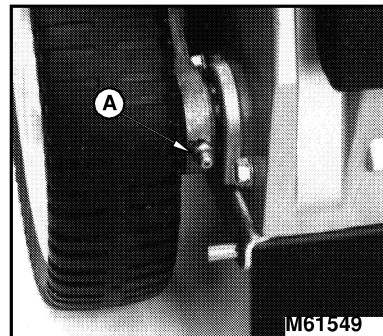


TS1417

Lubricate Rear Axle Bearings

NOTE: Adjust mower height indicator until zerk is easy to get grease gun on.

1. Wipe grease fittings clean.
2. Lubricate bearing (A) on each side with one shot of John Deere Multipurpose Grease or an equivalent.



SERVICE

Cleaning Mower



CAUTION: Before you clean mower:

- STOP engine. Let engine cool.
- Disconnect spark plug wire.
- Turn mower onto its RIGHT side.

IMPORTANT: To help extend clutch life, wait at least 30 minutes after mowing before cleaning under the deck with water. After cleaning with water, start the engine and engage the blade for about 15 seconds to “spin dry” the clutch. If you need to clean under the deck immediately after mowing use a scraper, NOT water.

Clean engine and top of the deck.

Check and clean cooling fins, if necessary.

Grass clippings can build up in belt and transmission area. If necessary, remove belt shield and clean this area. (See Clean Belt and Transmission Area in this section.)

If you operate the mower in dusty conditions, clean air cleaner foam element.

Remove mulch plug. Spray under the deck with water under pressure to remove corrosive lawn chemicals and grass buildup. (See IMPORTANT information above.)

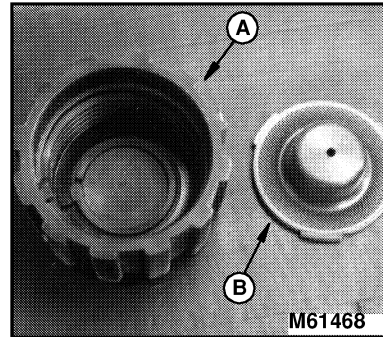
Remove and shake bag to remove clippings.

If bag is caked with grass on the inside, use water under pressure to clean bag. Direct water from outside to inside of bag.

SERVICE

Cleaning Fuel Cap Vent

1. Remove cap (A).
2. Remove rubber vent (B) from cap.
3. Clean cap and vent in a nonflammable solvent.
4. Install vent and cap.



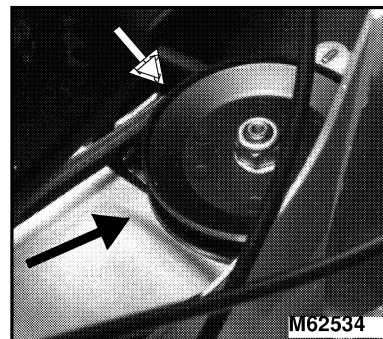
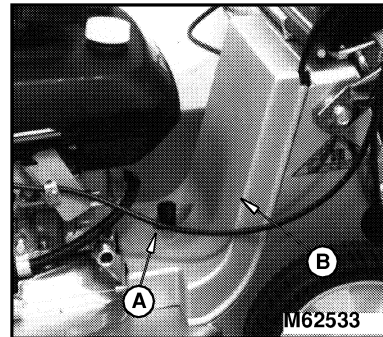
Cleaning Belt and Transmission Area



CAUTION: Before you remove shield:

- STOP engine. Let it cool.
- DO NOT operate mower without belt shield.

1. Remove knob (A) and shield (B).
2. Remove clippings from belt area and top of the transmission.
3. Install shield.



SERVICE

Check Blade



CAUTION: Service blade safely:

- STOP engine. Let it cool.
- Disconnect spark plug wire.
- Wear gloves or wrap blade with a rag.

IMPORTANT: To help prevent air cleaner damage and hard starting:

- Turn mower on its **RIGHT SIDE**.

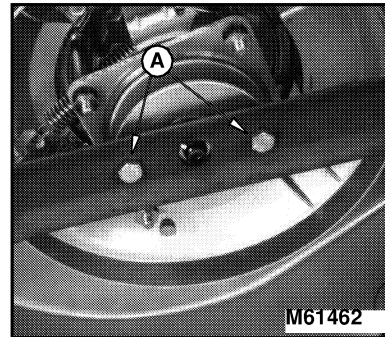
NOTE: Wing on blade tip **MUST** point up.

CHECK BLADE:

- Replace damaged blade.
- Tighten Bolts (A) to 48 N•m (35 lb-ft).
- Sharpen dull blade. (See Sharpening Blade in this section.)

TO REMOVE BLADE:

- Remove bolts (A) and blade.



SERVICE

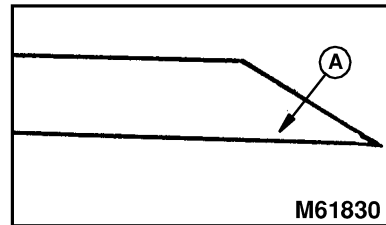
Sharpening Blade



CAUTION: Wear gloves and goggles when sharpening, balancing or installing blade.

IMPORTANT: Balance blade after you sharpen it. An unbalanced blade may cause excessive vibration.

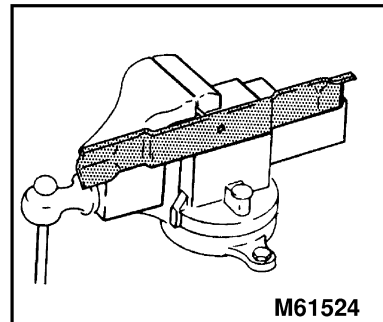
Sharpen blade: Keep original bevel (A).



M61830

Balance and Install Blade

1. Clean blade. Put it on a nail in vise or on a wall. Heavy end of blade will drop. Grind bevel of heavy end. Do not change bevel.
2. Install blade, washers (cup-side against blade), and bolts.
3. Tighten bolts to 48 N•m (35 lb-ft).



M61524

SERVICE

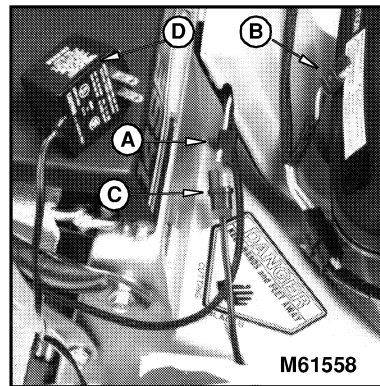
Charging the Battery (14SE)

NOTE: If battery is not used for an extended time, you may have to charge it.

The battery can be charged by running the engine.

IMPORTANT: Use only charger supplied with mower.
Other chargers may permanently damage battery.

1. Disconnect battery wire connector (A) from engine wire connector (B).
2. Connect charger cord connector (C) to battery wire connector.
3. Plug charger (D) into a 115-volt house receptacle. For a new or discharged battery: Charge battery 24–36 hours.
4. Unplug cord from house receptacle, then from battery.
5. Connect battery wire connector to engine wire connector.



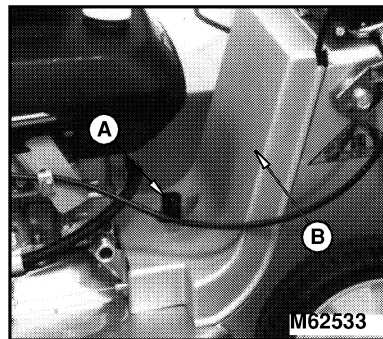
SERVICE

Removing the Battery (14SE)

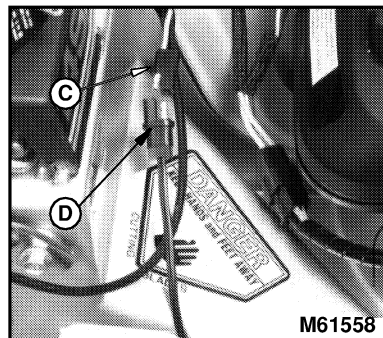
NOTE: If battery becomes permanently damaged, it can be removed and replaced.

If the battery is not used for an extended time, you may need to charge it. (See Charging the Battery in this section).

1. Remove knob (A) and shield (B).



2. Disconnect battery wire connector (C) from engine wire connector (D).



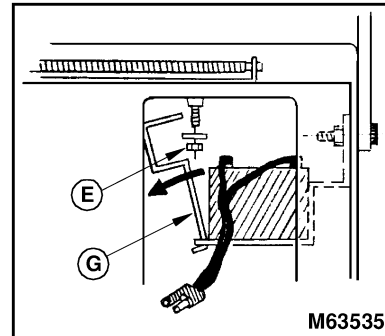
SERVICE



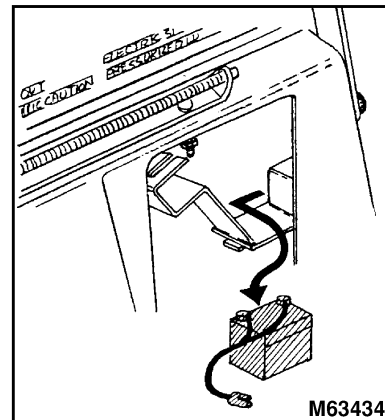
CAUTION: To avoid injury from electric shock:

- Battery must ALWAYS have wire connectors and boot properly installed on terminals during installation or removal.
- Never check battery charge by placing a metal object across the terminal post.

3. Using a 10 mm wrench, loosen lock nut (E) and rotate battery retainer (G) away from the battery.



4. Remove battery.



SERVICE

Handle Fuel Safely



CAUTION: Handle fuel with care, it is highly flammable:



- DO NOT refuel machine while you smoke, when machine is near an open flame or sparks, or when engine is running. STOP engine.
- Fill fuel tank outdoors.
- Prevent fires: clean oil, grease and dirt from machine. Clean up spilled fuel immediately.
- Do not store machine with fuel in tank in a building where fumes may reach an open flame or spark.
- To prevent fire and explosion caused by static electric discharge, while you fill tank, use a non-metal fuel container. If you use a funnel, MAKE SURE it is PLASTIC. Avoid using a funnel which has a metal screen or filter.
- Use only clean oil and fuel and clean approved containers and funnels.
- Store oil and fuel in an area protected from dust, moisture and other contamination.

SERVICE

Filling Fuel Tank

IMPORTANT: Avoid spilling fuel. Fuel can damage plastic and painted surfaces.
DO NOT mix oil with gasoline. Unleaded gasoline with an octane rating of 87 or higher is recommended.
Fuel tank capacity is 1.4 L (1.5 qt).

- Use only clean, fresh, unleaded regular grade gasoline.
- Remove any trash from top of fuel tank drain area.
- Never use fuel that is stale or has been stored for a long period of time:

Warm Weather: Maximum 60 days.

Cold Weather: Maximum of 90 days.

- Fill fuel tank at the end of each day's operation. This helps to keep condensation out of fuel tank.

Oxygenated Fuel

Oxygenates (either ethanol or MTBE) are added to the gasoline. If you use the oxygenated fuel be sure it is unleaded and meets the minimum octane rating requirement.

The following are the EPA approved percentages of fuel oxygenates:

ETHANOL (Ethyl or Grain Alcohol): You may use gasoline containing up to 10 percent ethanol by volume.

MTBE (Methyl Tertiary Butyl Ether): You may use gasoline containing up to 15 percent MTBE by volume.

METHANOL (Methyl or Wood Alcohol): You may use gasoline containing up to 5 percent methanol by volume, as long as it also contains cosolvents and corrosion inhibitors to protect the fuel system. Gasoline containing more than 5 percent methanol by volume may cause starting and/or performance problems. It may also damage metal, rubber, and plastic parts of your fuel system.

SERVICE

Filling Fuel Tank (Continued)

1. Remove fuel cap (A).
2. DO NOT fill tank to top; fuel can expand.
3. Fasten fuel cap.
4. Wipe off any spilled fuel.



TROUBLESHOOTING

Using Troubleshooting Chart

If you are experiencing a problem that is not listed in this chart, see your John Deere dealer for service.

When you have checked all the possible causes listed and you are still experiencing the problem, see your John Deere dealer.

IF	CHECK
Engine Will Not Start	Fuel shutoff knob not in OPEN position.
	Fuel tank is empty.
	Stale or dirty fuel.
	Disconnected or dirty spark plug.
	Throttle should be in choke position if the engine is cold.
	Battery needs to be charged or replaced (14SE).
Engine Starts Hard Or Loses Power	Dirty fuel tank cap vents.
	Stale or dirty fuel.
	Dirty air cleaner element.
	Disconnected or dirty spark plug.
	Throttle should be in choke position if the engine is cold.
Engine Runs Rough	Carburetor needs to be cleaned.
	Disconnected or dirty spark plug.
	Throttle lever not in fast position.
	Dirty cooling fins.

TROUBLESHOOTING

IF	CHECK
Engine Runs Rough	Dirty air cleaner paper or foam element.
Engine Overheats	Dirty blower housing and cooling fins.
	Oil level too low.
Engine Vibrates Too Much	Loose blade bolt.
	Blade dull or not balanced.
Mower Pushes Or Pulls Hard	Rear axle not lubricated.
	Traction clutch needs adjustment.
Mower Mows Unevenly	Pushing mower too fast.
	Mowing too fast around corners and mowing pattern not changed.
	Wheel levers not adjusted in the same position.
	Blade dull or not balanced.
Discharge Chute Plugs	Grass not dry.
	Cutting height not raised high enough.
	Dirty or full grass bag.
	Mowing too fast.
	Engine not in full throttle position.

TROUBLESHOOTING

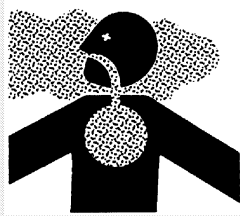
IF	CHECK
Mower Jerks Or Will Not Self-propel	Traction belt broken.
	Traction clutch not adjusted.
	Dirty transmission.
	Gear shift lever not in 1st or 2nd gear.
Mulched Grass Appearance Is Poor: Clumps, Excessive Clippings, Rough Cut, Etc.	Grass not dry.
	Mowing too fast.
	Engine not in full throttle position.
	Blade dull or not balanced.
	Cutting height set too low.

STORING MACHINE

Store Mower Safely



CAUTION: Engine exhaust fumes can cause sickness or death.



- If it is necessary to run an engine in an enclosed area, use an exhaust pipe extension to remove the fumes. Always try to work in a well ventilated area.
- DO NOT store mower with fuel in the tank inside a building where fumes may reach an open flame or spark.
- Allow engine to cool before storing in any enclosure.

Storing Mower

IMPORTANT: Use gasoline stabilizer: It helps prevent varnishing and plugging of carburetor jets. Either of these could cause engine to run lean, and result in piston seizure and engine failure.

Follow directions on stabilizer can.

1. Clean engine and top of deck.
2. Remove belt shield.
3. Clean belt and transmission area. Install shield.
4. Disconnect spark plug wire. Turn mower onto its RIGHT SIDE.

STORING MACHINE

IMPORTANT: To help extend clutch life, wait at least 30 minutes after mowing before cleaning under the deck with water. After cleaning with water, start the engine and engage the blade for about 15 seconds to “spin dry” the clutch. If you need to clean under the deck immediately after mowing use a scraper, NOT water.

5. Remove mulch plug. Clean underside of deck with water pressure to remove grass buildup, lawn chemicals, and fertilizer. (See IMPORTANT information above.)
6. Lower mower to the ground.
7. Use John Deere Gasoline Storage Stabilizer or an equivalent. Follow directions on can.
8. Lubricate rear axle bushings.
9. Turn fuel shutoff knob to the CLOSED position.
10. If desired, fold upper handle bar down and remove lower mounting bolts to fold lower handle bar over the engine. DO NOT crimp or pinch cables.
11. Do not store mower with fuel in tank in a building where fumes may reach an open flame or spark.

Remove Mower from Storage

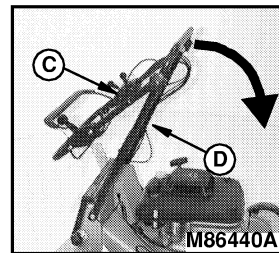
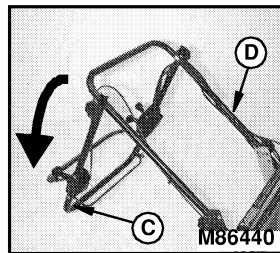
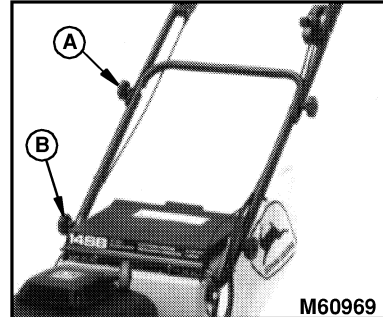
1. Unfold handles. Tighten knobs. Do not crimp cables.
2. Fill fuel tank with fresh gasoline.
3. Check engine oil level.
4. Connect wire to spark plug.
5. Inspect shields, safety devices and hardware.
6. Lubricate rear axle bushings.
7. Turn fuel shutoff knob to the OPEN position.
8. Run engine at the HALF-THROTTLE position briefly.

STORING MACHINE

Fold Handles

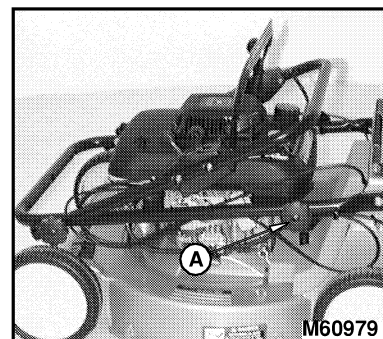
IMPORTANT: DO NOT CRIMP CABLES when folding handle bars.

1. Remove grass bag.
2. Loosen knob (A) 25 mm (1 in.) on each side. CAREFULLY lower upper handle (C) to the rear. Leave bolt heads against handle.
3. Remove knob and bolt (B) from each side.
4. CAREFULLY fold lower handle (D) forward. Guide cables inside lower handle. DO NOT CRIMP CABLES.
5. Install bolts and knobs in handle.



Unfold Handles

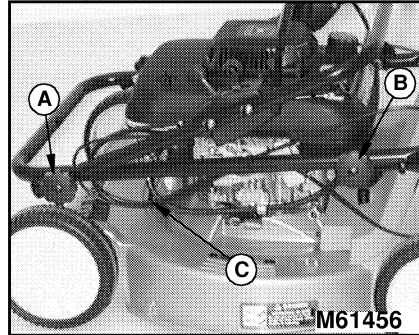
1. Remove knob (A) and bolt from each side.
2. Install bolt in same square bracket hole and through handle on each side. The bracket should be inside handle.
3. Install knob on each bolt.
4. Straighten handle. DO NOT CRIMP CABLES.
5. Tighten knob (A) on each side.
6. Check cables for kinks or damage.



ASSEMBLY

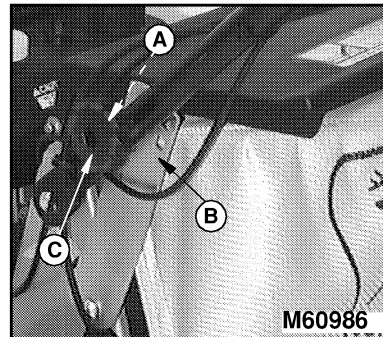
Remove Handle Hardware

1. Loosen knob (A) on each side.
2. Remove knob (B) and bolt from each side.
3. Cables (C) should be inside handle.



Unfold Handles

1. Remove tie strap from around blade lockout lever and handle.
2. Remove foam packing from lower handlebar.
3. Install bolt (A) through desired square hole in bracket (B) and through handle on each side. Bracket should be inside handle. Use same square hole on each side.
4. Install knob (C) on each bolt.
5. Pivot handle to the STRAIGHT position. Hold handle and tighten knob (D) on each side.

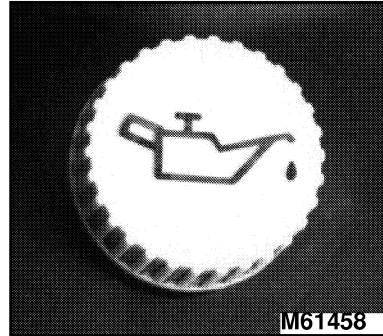


ASSEMBLY

Add Engine Oil

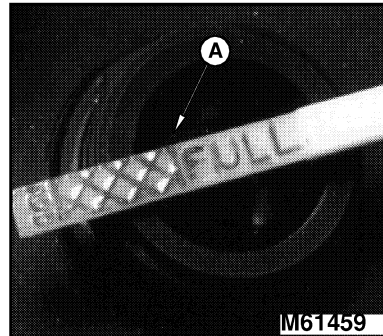
IMPORTANT: Engine is shipped without oil.
You **MUST** add oil before you run engine.

1. Remove dipstick.
2. Pour 0.6 L (20 oz) oil into dipstick tube.
3. Check oil level:
4. Install dipstick:



IMPORTANT: Do not tighten dipstick, let threads rest on the top of tube.

- Check oil level. Oil should be to the FULL mark (A). If not, add Oil.
5. Install and tighten dipstick.
 6. Remove "NO OIL" tag from top of engine.



ASSEMBLY

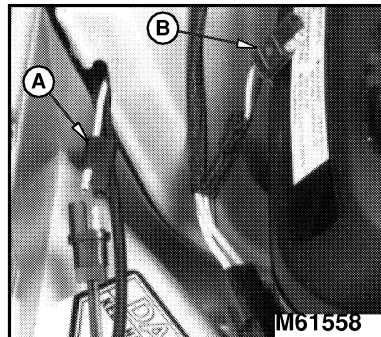
Charge Battery (14SE)

IMPORTANT: Use only charger supplied with mower. Other chargers may damage battery.

To help battery last longer:

- Charge battery 24–36 hours before you use battery for the first time.

1. Disconnect battery wire connector (A) from engine wire connector (B).

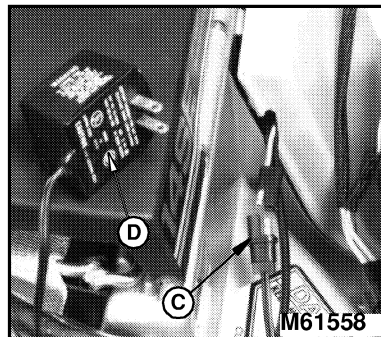


2. Connect charger cord connector (C) to battery wire connector.

3. Plug charger (D) into a 115-volt house receptacle.

4. Charge battery 24–36 hours.

5. Unplug cord from house receptacle, then from battery.



6. Connect battery wire connector to engine wire connector.

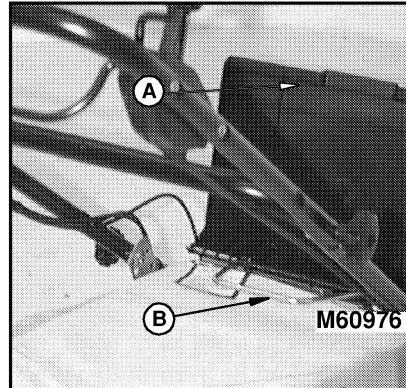
ASSEMBLY

Install Grass Bag



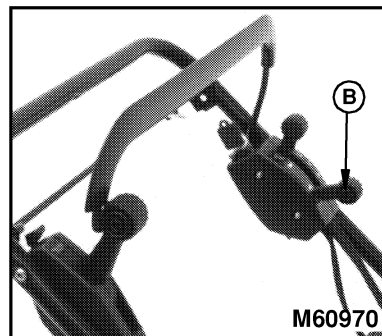
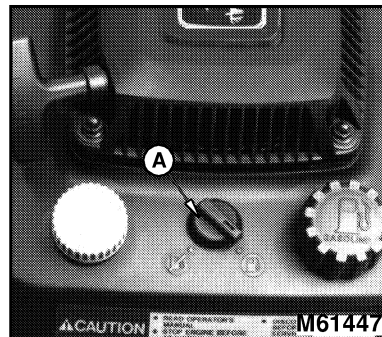
CAUTION: DO NOT operate mower unless grass bag, chute, or mulch plug is in place.

1. Lift and hold door (A) up.
2. Grasp handle (B).
3. Install bag.



Test Mower

1. Put enough fuel in fuel tank to test mower operation.
2. Turn fuel shutoff knob (A) to the OPEN position.
3. Move throttle lever (B) to the FAST  position.
4. Start engine and check mower operation. (See Operating section).
5. Stop engine and turn fuel shutoff knob to the CLOSED position.



SPECIFICATIONS

Engine

Model	"K" Series
Horsepower	4.1 Kw (5.5 hp)
Cycle	4
Slow Idle Speed	1500 rpm
Operating Range	3000–3200 rpm
Fuel Tank Capacity	1.4 L (1.5 qt)
Engine Oil Capacity Without Filter	0.6 L (20 oz)
Spark Plug	RN11YC or NGK-BP5ES
Spark Plug Gap	0.76 mm (0.030 in.)
Spark Plug Torque	20 N•m (15 lb-ft)

Machine Specifications

Cutting Height Range	13–90 mm (1/2–3-1/2 in.)
Number of Cutting Heights in 1/2 in. (13 mm) Steps	7
Blade Hardware Torque	48 N•m (35 lb-ft)
Travel Speed Range	1.9–6.6 kmh (1.2–4.1 mph)
Number of Travel Speeds	5
Drive	V-Belt Off Engine
Safety System	Blade-Brake Clutch
Wheel Diameter	200 mm (8 in.)
Bag Capacity	74 L (2.5 bu)
Weight (Approximate)	45 kg (100 lb)

SPECIFICATIONS

Recommended Lubricants

Fuel	See Filling Fuel Tank in the Service section.
Engine Oil	John Deere PLUS-4®
Grease	John Deere MOLY HIGH TEMPERATURE EP GREASE John Deere HIGH TEMPERATURE EP GREASE John Deere GREASE GARD™

(Specifications and design subject to change without notice)

WARRANTY

Product Warranty

Product warranty is provided as part of John Deere's support program for customers who operate and maintain their equipment as described in this manual. The following warranties are in addition to the product warranty you received from your dealer at the time of sale.

Tire Warranty

John Deere warranty applies for tires available through the John Deere parts system. For tires not available through the John Deere parts system, the tire manufacturer's warranty applicable to your machine may not apply outside the U.S. (See your John Deere dealer for specific information.)

Limited Engine Warranty

CALIFORNIA EMISSION CONTROL SYSTEM LIMITED WARRANTY

YOUR RIGHTS AND OBLIGATIONS

The California Air Resources Board and Deere & Company (John Deere) are pleased to explain the emission control system warranty on your 1995 and later lawn and garden equipment engine. In California, new utility and lawn and garden equipment engines must be designed, built and equipped to meet the State's stringent anti-smog standards. John Deere must warrant the emission control system on your lawn and garden equipment engine for the periods of time listed herein provided there has been no abuse, neglect or improper maintenance of your lawn and garden equipment engine.

Your emission control system may include parts such as the carburetor or fuel-injection system, the ignition system, and catalytic converter. Also included may be hoses, belts, connectors and other emission related assemblies.

Where a warrantable condition exists, John Deere will repair your lawn and garden equipment engine at no cost to you including diagnosis, parts and labor.

MANUFACTURER'S WARRANTY COVERAGE

The 1995 and later lawn and garden equipment engines are warranted for two years. If any emission related part on your engine is defective, the part will be repaired or replaced by John Deere.

WARRANTY

OWNER'S WARRANTY RESPONSIBILITIES

As the lawn and garden equipment engine owner, you are responsible for the performance of the required maintenance listed in your owner's manual. John Deere recommends that you retain all receipts covering maintenance on your engine, but John Deere cannot deny warranty solely for lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

As the lawn and garden equipment engine owner, you should however be aware that John Deere may deny you warranty coverage if your engine or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

You are responsible for presenting you lawn and garden equipment engine to an authorized John Deere Lawn and Grounds Care Retailer as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

If you have any questions regarding your warranty rights and responsibilities, you should contact your John Deere Retailer, or the John Deere Customer Communications Center, 1-800-537-8233.

JOHN DEERE EXPLANATION OF WARRANTY COVERAGE

COVERAGE

John Deere warrants to the initial owner and each subsequent purchaser that the lawn and garden equipment engine is free from defects in materials and workmanship for a period of two years after the engine is delivered to the initial retail purchaser. John Deere is liable for damages to other engine components caused by the failure of a warranted part during the warranty period. If any emission related part on your engine is defective, the part will be repaired or replaced by John Deere.

WHERE TO GET WARRANTY COVERAGE

Warranty service shall be performed during customary business hours at any authorized John Deere Lawn and Grounds Care Retailer located within the United States of America. Only manufacturer-approved replacement parts may be used when performing any warranty maintenance or repairs on emission related parts, and must be provided without charge to the owner if the part is still under warranty. Any parts replaced under this warranty shall become the property of John Deere.

WARRANTY

WHAT IS COVERED

The emissions control system warranty covers the following warranted parts only: carburetor and its internal parts, fuel injection system, spark advance/retard system, cold start enrichment system, magneto or electronic ignition system, hoses, tubing used directly in those parts. Since emission related parts may vary slightly from model to model, certain models may not contain all of these parts and certain models may contain functionally equivalent parts.

LIMITATIONS

This Emission Control System Warranty shall NOT cover any of the following:

- a) Repair or replacement required as a result of (i) misuse or neglect, (ii) lack of required maintenance, (iii) repairs improperly performed or replacements improperly installed, (iv) use of replacement parts or accessories not conforming to John Deere specifications which adversely affect performance and/or durability, (v) alterations or modifications not recommended or approved in writing by John Deere.
- b) Replacement parts, other services and adjustments necessary for normal maintenance.
- c) Transportation to and from the John Deere Retailer, or service calls made by the Retailer.

LIMITED LIABILITY

a) The liability of John Deere under this Emission Control System Warranty is limited solely to the remedying of defects in materials or workmanship. This warranty does not cover inconvenience or loss of use of the lawn and garden equipment engine or transportation of the engine to or from the John Deere Retailer. JOHN DEERE SHALL NOT BE LIABLE FOR ANY OTHER EXPENSE, LOSS, OR DAMAGE, WHETHER DIRECT, INCIDENTAL, CONSEQUENTIAL (EXCEPT AS LISTED ABOVE UNDER "COVERAGE") OR EXEMPLARY ARISING IN CONNECTION WITH THE SALE OR USE OF OR INABILITY TO USE THE LAWN AND GARDEN ENGINE FOR ANY OTHER PURPOSE.

b) NO EXPRESS EMISSION CONTROL SYSTEM WARRANTY IS GIVEN BY JOHN DEERE WITH RESPECT TO THE ENGINE EXCEPT AS SPECIFICALLY SET FORTH IN THIS DOCUMENT. ANY EMISSION CONTROL SYSTEM WARRANTY IMPLIED BY LAW, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, IS EXPRESSLY LIMITED TO THE EMISSION CONTROL SYSTEM WARRANTY TERMS SET FORTH IN THIS DOCUMENT.

WARRANTY

c) No dealer is authorized to modify this John Deere California Emission Control System Warranty.

d) John Deere is not liable for parts which are not genuine John Deere parts except when genuine John Deere parts cause damage to non-John Deere parts.

LEGAL RIGHTS

This Warranty gives you specific legal rights. You may also have other rights in the State of California.

THIS CALIFORNIA EMISSION CONTROL SYSTEM WARRANTY IS IN ADDITION TO THE JOHN DEERE LIMITED ENGINE WARRANTY.

WARRANTY

Limited Battery Warranty

NOTE: Applicable in North American only. For complete machine warranty, reference a copy of the John Deere warranty statement. Contact your John Deere dealer to obtain a copy.

TO SECURE WARRANTY SERVICE

The purchaser must request warranty service from a John Deere dealer authorized to sell John Deere batteries, and present the battery to the dealer with the top cover plate codes intact.

FREE REPLACEMENT

Any new battery which becomes unserviceable (not merely discharged) due to defects in material or workmanship within 90 days of purchase will be replaced free of charge. Installation costs will be covered by warranty if (1) the unserviceable battery was installed by a John Deere factory or dealer, (2) failure occurs within 90 days of purchase, and (3) the replacement battery is installed by a John Deere dealer.

PRO RATA ADJUSTMENT

Any new battery which becomes unserviceable (not merely discharged) due to defects in material or workmanship more than 90 days after purchase, but before the expiration of the applicable adjustment period, will be replaced upon payment of the battery's current list price less a pro rata credit for unused months of service. The applicable adjustment period is determined from the Warranty Code printed at the top of the battery and chart below. Installation costs are not covered by warranty after 90 days from the date of purchase.

THIS WARRANTY DOES NOT COVER

- A. Breakage of the container, cover, or terminals.
- B. Depreciation or damage caused by lack of reasonable and necessary maintenance or by improper maintenance.
- C. Transportation, mailing, or service call charges for warranty service.

LIMITATION OF IMPLIED WARRANTIES AND PURCHASER'S REMEDIES

To the extent permitted by law, neither John Deere nor any company affiliated with it makes any warranties, representations, or promises as to the quality, performance or freedom from defect of the products covered by this warranty. IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, TO THE EXTENT APPLICABLE, SHALL BE LIMITED IN DURATION TO THE APPLICABLE ADJUSTMENT PERIOD SET FORTH HERE. THE PURCHASER'S ONLY REMEDIES IN CONNECTION WITH THE BREACH OR PERFORMANCE OF ANY WARRANTY ON JOHN DEERE BATTERIES ARE THOSE SET FORTH HERE. IN NO EVENT WILL THE DEALER, JOHN DEERE OR ANY COMPANY AFFILIATED WITH JOHN DEERE BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. (Note: Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages. So these limitations and exclusions may not apply to you.) This warranty gives you specific legal rights, and you may also have some rights which vary from state to state.

NO DEALER WARRANTY

The selling dealer makes no warranty of its own and the dealer has no authority to make any representation or promise on behalf of John Deere, or to modify the terms or limitations of this warranty in any way.

PRO RATA MONTHS OF ADJUSTMENT

Warranty Code	Warranty Period
A	40 Months
B	36 Months
C	24 Months

NOTE: If your battery is not labeled with a warranty code, it is a warranty code "B".

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JOHN DEERE SERVICE LITERATURE

Order Form

John Deere Distribution Center
Department S/P
P.O. Box 186, Moline, IL 61266-0186

Name _____

Address _____

City _____

State _____

Zip _____

Phone () _____

To order these publications, fill out this form and the payment information and mail it to the address above. Make checks payable to John Deere. Please allow three weeks for delivery. No COD orders, please. Do not send cash or stamps. To place credit card orders, call **1-800-522-7448**. If you want manuals or catalogs for equipment not shown on this list, provide the model number, serial number, and name of the product.

Title	Order Number	Price Each	x Quantity	= Total
Parts Catalog	PC2264	(Call 1-800-522-7448 for current prices.)	X	=
Operator's Manual	OMGC00095		X	=
Technical Manual	TM1471		X	=
			X	=
Fundamentals of Service (FOS) Manuals:				
Engines	FCP80101B	(Call 1-800-522-7448 for current prices.)	X	=
Power Trains	FCP81102B		X	=
Electrical Systems	FCP83101B		X	=
Hydraulics	FCP82101B		X	=
Catalog of Available Service Publications	DB1112	N/C		
Sub-total				
Method of Payment		Illinois state residents add 6.25% and Iowa state resident add 4% for Retail Occupation Tax or show tax exemption number. Other states excluded.		
☐ Check or Money Order Enclosed ☐ John Deere Credit Card ☐ MasterCard ☐ Visa ☐ American Express ☐ Discover ☐ Farm Plan		Total Shipping & Handling (from table below) (Prices subject to change without notice - DEC 91) Amount Due in U.S. Dollars		
Credit Card Acct. No. (13 or 16 digits)		Subtotal	Shipping/ Handling	Optional shipping available. Please check and add cost to normal shipping: ☐ 1 day air.....\$15.00 ☐ 2 day air.....\$10.00
		\$.50 to 14.99	\$3.00	
		15.00 to 24.99	4.25	
Expiration Date:		25.00 to 49.99	5.50	
Signature:		50.00 to 99.99	7.50	
		100.00 and over	4% of sub total	

Cut along dotted line

NOTES



QUALITY DOESN'T END WHEN YOU INVEST IN A DEERE

John Deere equipment is more than just a purchase, it's an investment in quality. That quality goes beyond our equipment to your John Deere dealer's parts and service support. This support is needed to keep you a satisfied customer.

That's why John Deere has initiated a process to handle your questions or problems, should they arise. The following three steps will help guide you through the process.

Step 1 Refer to your operator's manual

- A. It has many illustrations and detailed information on the safe and proper operation of your equipment.
- B. It gives troubleshooting procedures, and specification information.
- C. It gives ordering information for parts catalogs, service and technical manuals.
- D. If your questions are not answered in the operator's manual, then go to Step 2.

Step 2 Contact your dealer

- A. Your John Deere dealer has the responsibility, authority, and ability to answer questions, resolve problems, and fulfill your parts and service needs.
- B. First, discuss your questions or problems with your dealer's trained parts and service staff.
- C. If the parts and service people are unable to resolve your problem, see the dealership manager or owner.
- D. If your questions or problems are not resolved by the dealer, then go to Step 3.

Step 3 Call the John Deere Customer Communications Center

- A. Your John Deere dealer is the most efficient source in addressing any concern, but if you are not able to resolve your problem after checking your operator's manual and contacting your dealer, call the Customer Communications Center.
- B. For prompt, effective service, please have the following ready before you call:
 - The name of the dealer with whom you've been working.
 - Your equipment model number.
 - Number of hours on machine (if applicable).
 - Your 13-digit serial number which you recorded on the inside front cover of this manual.
 - If the problem is with an attachment, your attachment identification number.
- C. Then call 1-800-537-8233 and our advisor will work with your dealer to investigate your concern.

