

JOHN DEERE
AG & TURF DIVISION

Snowblower
47-Inch

OMLVU24140 H2

OPERATOR'S MANUAL



JOHN DEERE

Original Instruction

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Consumer Equipment Division**

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North American Version

Printed in U.S.A.

INTRODUCTION

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Introduction

Using Your Operator's Manual

Read this entire operator's manual, especially the safety information, before operating.

This manual is an important part of your machine. Keep all manuals in a convenient location so they can be accessed easily.

Use the safety and operating information in the attachment operator's manual, along with the machine operator's manual, to operate and service the attachment safely and correctly.

If your attachment manual has a section called Preparing the Machine, it means that you will have to do something to your tractor or vehicle before you can install the attachment. The Assembly and Installation sections of this manual provide information to assemble and install the attachment to your tractor or vehicle. Use the Service section to make any needed adjustments and routine service to your attachment.

If you have any questions or concerns with the assembly, installation, or operation of this attachment, see your local John Deere dealer or call the John Deere Customer Contact Center at 1-800-537-8233 for assistance.

Warranty information on this John Deere attachment can be found in the warranty that came with your John Deere tractor or vehicle.

Product Identification

Product Compatibility

This snowblower is designed for use with a John Deere compact utility tractor with a front Quick Hitch.

Contact your John Deere dealer for specific tractor compatibility information.

Record Purchase Information

Snowblower

47-Inch Serial Number (100001-)

Record your purchase information in the spaces provided below.

DATE OF PURCHASE:

DEALER NAME:

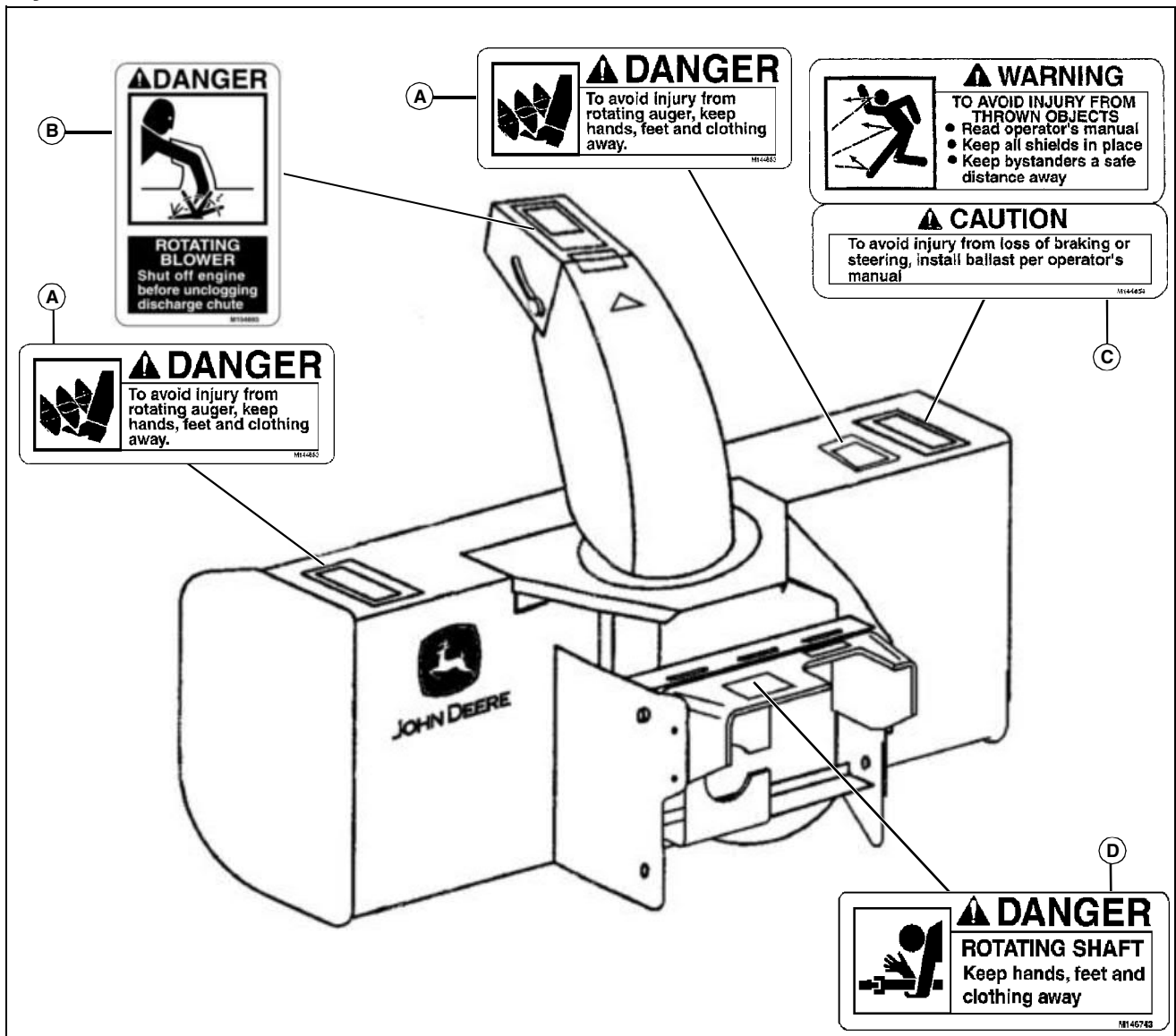
DEALER PHONE:

PRODUCT SERIAL NUMBER:

SAFETY LABELS

Safety Label Location

Safety Labels



MX22591

Picture Note: Use label number listed in table below to locate complete text of safety label message following this illustration.

- A- DANGER - M144853
- B- DANGER - M154693
- C- WARNING / CAUTION- M144854
- D- DANGER - M146743

DANGER M144853



M144853

To avoid injury from rotating auger, keep hands, feet and clothing away.



Understanding The Machine Safety Labels

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.

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SAFETY LABELS

WARNING - M144854



M144854

TO AVOID INJURY FROM THROWN OBJECTS

- Read operator's manual.
- Keep all shields in place.
- Keep bystanders a safe distance away.

CAUTION

- To avoid injury from loss of braking or steering, install ballast per operator's manual.

DANGER M146743



M146743

ROTATING SHAFT

- Keep hands, feet and clothing away.

DANGER M154693



M154693

ROTATING BLADE

- Shut off engine before unclogging discharge chute.

Certification

Your product has been certified for compliance with American National Standards Institute B-71.3, "Safety Specifications" for Snow Throwers.

SAFETY

Safety

Read Safety in Machine Operator's Manual

Read the general safety operating precautions in your machine operator's manual for additional safety information.

Safe Operation Practices for Ride On Snow Throwers

This snowthrower is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury.

Training

- Read, understand and follow all instructions on the machine and in the manuals before operating this unit. Be thoroughly familiar with the controls and the proper use of the equipment. Know how to stop the unit and disengage the controls quickly.
- Never allow children to operate the equipment. Never allow adults to operate the equipment without proper instruction.
- Keep the area of operation clear of all persons, particularly small children.

Preparation

- Thoroughly inspect the area where the equipment is to be used and remove all doormats, sleds, boards, wires, and other foreign objects.
- Disengage all clutches and shift into neutral before starting the engine.
- Do not operate the equipment without wearing adequate winter garments. Avoid loose fitting clothing that can get caught in moving parts. Wear footwear that will improve footing on slippery surfaces.
- Handle fuel with care; it is highly flammable.
 - a. Use an approved fuel container.
 - b. Never add fuel to a running engine or hot engine.
 - c. Fill fuel tank outdoors with extreme care. Never fill fuel tank indoors.
 - d. 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 filling.
 - e. When practical, remove gas-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, then refuel such equipment on a trailer with a portable container, rather than from a gasoline dispenser nozzle.
 - f. Keep the nozzle in contact with the rim of the fuel tank or container opening at all times, until refueling is complete. Do not use a nozzle lock-open device.
 - g. Replace gasoline cap securely and wipe up spilled fuel.
 - h. If fuel is spilled on clothing, change clothing immediately.
- Adjust the collector housing height to clear gravel or crushed rock surface.
- Never attempt to make any adjustments while the engine is running (except when specifically recommended by the manufacturer).
- Always wear safety glasses or eye shields during operation or while performing an adjustment or repair to protect eyes from foreign objects that may be thrown from the machine.

Operation

- Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.

- Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic.
- After striking a foreign object, stop the engine, remove the spark plug wire, thoroughly inspect the snow thrower for any damage, and repair the damage before restarting and operating the snow thrower.
- If the unit should start to vibrate abnormally, stop the engine and check immediately for the cause.
- Stop the engine whenever you leave the operating position, before unclogging the collector or impeller housing, or discharge guide, and when making any repairs, adjustments or inspections.
- When leaving the machine unattended, disengage the power take-off, lower the attachment, lock the park brake, stop the engine, and remove the key.
- When cleaning, repairing, or inspecting, make certain the collector or impeller and all moving parts have stopped. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
- Do not run the engine indoors, except when starting the engine and for transporting the snow thrower in or out of the building. Open the outside doors; exhaust fumes are dangerous.
- Do not clear snow across the face of slopes, go up and down. Exercise extreme caution when operating on slopes. Do not attempt to clear steep slopes.
- Never operate the snow thrower without proper guards, and other safety protective devices in place.
- Never direct the discharge toward people or areas where property damage can occur. Keep children and others away.
- Do not overload the machine capacity by attempting to clear snow at too fast a rate.
- Never operate the machine at high transport speeds on slippery surfaces. Look behind and use care when backing.
- Do not carry passengers.
- Never direct discharge at bystanders or allow anyone in front of the unit.
- Disengage power to the collector or impeller when the snow thrower is transported or not in use.
- Use only attachments and accessories approved by the manufacturer of the snow thrower (such as wheel weights, counterweights, and cabs).
- Never operate the snow thrower without good visibility or light.

Parking Safely

1. Stop machine on a level surface, not on a slope.
2. Disengage PTO and stop attachments.
3. Lower attachments to the ground.
4. Lock park brake.
5. Stop engine.
6. Remove key.
7. Wait for engine and all moving parts to stop before you leave the operator's station.
8. Close fuel shut off valve before servicing the fuel system, if your machine is equipped.
9. Disconnect the battery ground cable before making repairs to electrical system or doing any welding.

Clearing a Clogged Discharge Chute

- Hand contact with the rotating impeller inside the discharge chute is the

SAFETY

most common cause of injury associated with snowthrowers. Never use your hand to clean out the discharge chute.

- To clear the chute:
 - a. Shut the engine off.
 - b. Wait ten seconds to be sure the impeller blades have stopped rotating.
 - c. always use a clean-out tool, not your hands.

Maintenance and Storage

- Check shear bolts and other bolts at frequent intervals for proper tightness to be sure the equipment is in safe working condition.
- Never store the machine with fuel in the fuel tank inside a building where ignition sources are present such as hot water and space heaters, and clothes dryers. Allow the engine to cool before storing in any enclosure.
- Always refer to operator's manual for important details if the snow thrower is to be stored for an extended period.
- Maintain or replace safety and instruction labels as necessary.
- Run the machine a few minutes after throwing snow to prevent freeze up of the collector or impeller.

Practice Safe Maintenance

- Only qualified, trained adults should service this machine.
- Understand service procedure before doing work. Keep area clean and dry.
- Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.
- Never lubricate, service or adjust the machine or attachment while it is moving. Keep safety devices in place and in working condition. Keep hardware tight.
- Keep hands, feet, clothing, jewelry, and long hair away from any moving parts, to prevent them from getting caught.
- Lower any attachment completely to the ground or to an existing attachment mechanical stop before servicing the attachment. Disengage all power and stop the engine. Lock park brake and remove the key. Let machine cool.
- Disconnect battery or remove spark plug wire (for gasoline engines) before making any repairs.
- Before servicing machine or attachment, carefully release pressure from any components with stored energy, such as hydraulic components and springs.
- Release hydraulic pressure by lowering attachment or cutting units to the ground or to a mechanical stop and move hydraulic control levers.
- Securely support any machine or attachment elements that must be raised for service work. Use jack stands or lock service latches to support components when needed.
- Never run engine unless park brake is locked.
- Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Replace all worn or damaged safety and instruction decals.
- Check all hardware at frequent intervals to be sure the equipment is in safe working condition.
- Do not modify machine or safety devices. Unauthorized modifications to the machine or attachment may impair its function and safety.

Avoid Injury from Moving Parts

Before cleaning, repairing, or inspecting, make certain all moving parts

have stopped. Disconnect the tractor spark plug wire or battery to prevent accidental starting.

Do not put hands or feet near or under rotating parts. Keep clear of any discharge area at all times.

Protect your hands when you inspect or unplug the attachment. Wear gloves and use proper tools.

Before you dismount to unplug or adjust attachment:

- Disengage PTO.
- Stop the engine.
- Lock the park brake.
- Remove the key.
- Wait for all moving parts to stop.
- Keep hands, feet and clothing away from attachment when engine is running.

Avoid Injury from Hitting Obstructions

- Raise the attachment when driving between jobs.
- Drive at slow speeds when using the attachment. Be cautious of hidden obstacles.



Stay Clear of Rotating Drivelines

Entanglement in rotating driveline can cause serious injury or death.

- Wear close fitting clothing.
- Stop the engine and be sure PTO driveline is stopped before getting near it.



Avoid High Pressure Fluids

- Hydraulic hoses and lines can fail due to physical damage, kinks, age, and exposure. Check hoses and lines regularly. Replace damaged hoses and lines.

- Hydraulic fluid connections can loosen due to physical damage and vibration. Check connections regularly. Tighten loose connections.
- Escaping fluid under pressure can penetrate the skin causing serious injury. Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure.
- Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.
- If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source. Such information is available from Deere & Company Medical Department in Moline, Illinois, U.S.A. Information may be obtained in the United States and Canada only by calling 1-800-822-8262.

ASSEMBLY

Assembly

Parts

Snowblower

Qty.	Description
1	Auger Housing
1	Discharge Chute and Spout
1	Drift Blade
3	Clips
6	Bolt, Self-Tapping
1	Tie Strap
1	Pin, Locking with Chain
1	Pin, Spring Locking
4	Bolt, M6x30
4	Locknut, M6

Drive Assembly (Models 4100, 4010, 4110, 4115, 2320, 2520)

Qty.	Description
2	End Plate
1	PTO Shield
1	Driveshaft Support Rod
1	Driveshaft
2	Hose Extension, Long*
2	Adapter, 45-degree*
19	Nut, M8
16	Bolt, M8x20
1	Locknut, M8
4	Capscrew, M6x30
2	Locknut, M6
2	Bolt, M8x25
1	Washer
1	Rolled Pin
1	Key
1	Wire
1	Drift Blade
1	Hose Extension, Short**
1	Adapter**
6	Bolt, M8x35

*Parts used for installation on 2320, 2520 only.

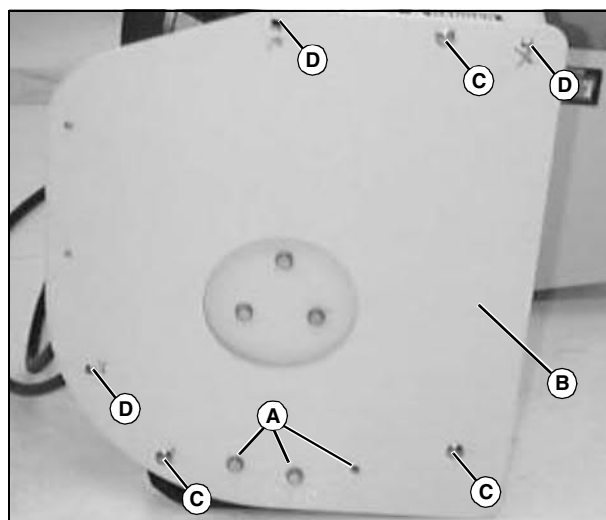
**Part used for installation on 4100, 4010, 4110, 4115 only.

Drive Assembly (Models 2210, 2305, 1023E, 1026R)

Qty.	Description
1	Upstop
1	Driveshaft Support Rod
1	Driveshaft
2	Hose Extension
4	Carriage Bolt, M8x20
2	Bolt, M8x25
5	Nut, M8
1	Locknut, M8
1	Washer
1	Rolled Pin
1	Key
1	Hose Locking Ring
1	Wire
1	Dust Cap, Yellow (1023E and 1026R Only)
1	Dust Cap, Black (1023E and 1026R Only)

NOTE: See your *Front Hitch Kit Installation Instructions* for assembling large spring locking pin and tether assembly used with the Front Hitch Kit to restrict the hitch from angling with the attachment.

Install End Plates (4100, 4010, 4110, 4115, 2320, 2520 only)



M93528

1. Remove two capscrews (A) and nuts from skid shoe. Retain nuts.
2. Install end plate (B) to plate on snowblower with three M8x20 carriage bolts (C) and M8 nuts.
3. Install three M8x35 capscrews (A) with one nut and the two nuts



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ASSEMBLY

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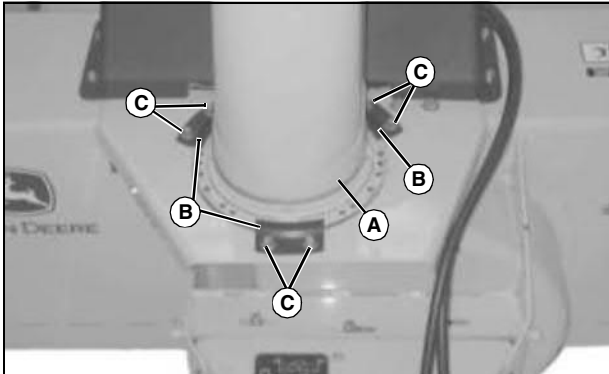
4. Drill three 5/16 in. holes (D), and install M8x20 carriage bolt and M8 nuts.

5. Repeat installation on other side.

Install Discharge Chute and Cables

IMPORTANT: Avoid damage! Retract the hydraulic cylinder rod before starting this installation.

1. Apply grease on the bottom and inside flange of discharge chute.

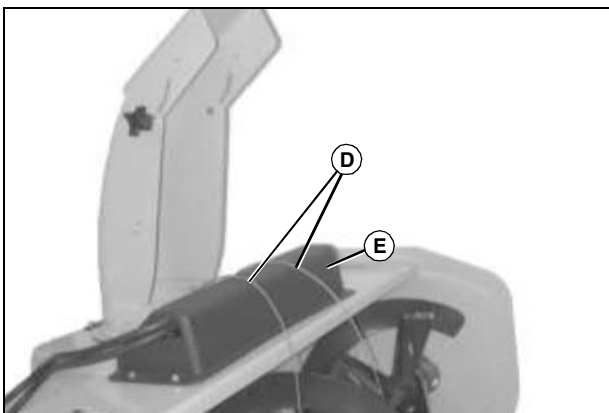


MX12335

2. Place discharge chute (A) over auger opening on housing.

3. Install three clips (B) with six self tapping bolts (C).

4. Tighten bolts. Chute should rotate freely after tightening.

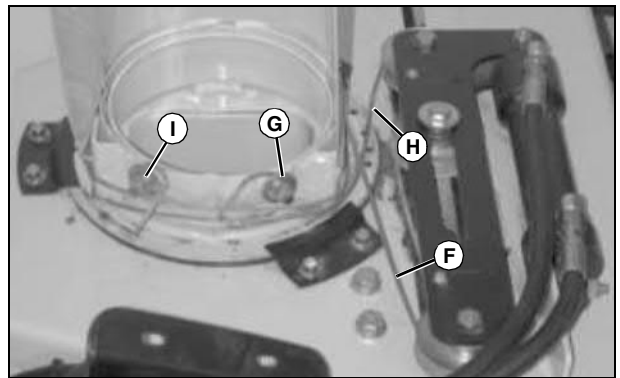


MX12333

5. Lay cables (D) over housing.

6. Remove cable shield (E) and verify that chute cables are still on pulleys.

7. Rotate chute to right.



MX12337

8. Stand behind snowblower. Take right cable (F) and wrap counterclockwise around chute.

9. Use locking pliers to pull cable tight around threaded stud, and behind nut and washer (G).

10. Tighten nut.

11. Wrap left cable (H) clockwise around chute.

12. Use locking pliers to pull cable tight around threaded stud, and behind nut and washer (I).

13. Tighten nut.

14. Tuck excess ends of cables under cable.

IMPORTANT: Avoid damage! When installing cable shield, install the longer bolts through the shield and bracket.

15. Install cable shield.

Install Driveshaft

1. Lubricate grease fittings.



MX12325

2. Install key (A) in gearbox shaft groove.

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