

# 47 and 54 Inch Quick-Hitch Snowblower



## OPERATOR'S MANUAL 47 and 54 Inch Quick-Hitch Snowblower OMLVU33941 ISSUE F8 (ENGLISH)

### CALIFORNIA Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

If this product contains a gasoline engine:

### **WARNING**

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

The State of California requires the above two warnings.

Additional Proposition 65 Warnings can be found in this manual.

**John Deere Augusta Works**

North American Edition  
PRINTED IN U.S.A.





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

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Previous Editions  
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# Product Identification

## Product Compatibility

The 47 and 54 inch Quick-Hitch Snowblowers are compatible with the 1023E, 1025R and 2025R compact utility tractors.

UP00731,00001B0 -19-23MAR17-1/1

## Record Identification Numbers

47 in. Serial No. (150001-)

54 in. Serial No. (070001-)

When contacting a John Deere Dealer for information on servicing, always provide the product model and serial number.

Locate the model and serial number for the machine and record the information in the spaces provided below.

DATE OF PURCHASE:

\_\_\_\_\_

DEALER NAME:

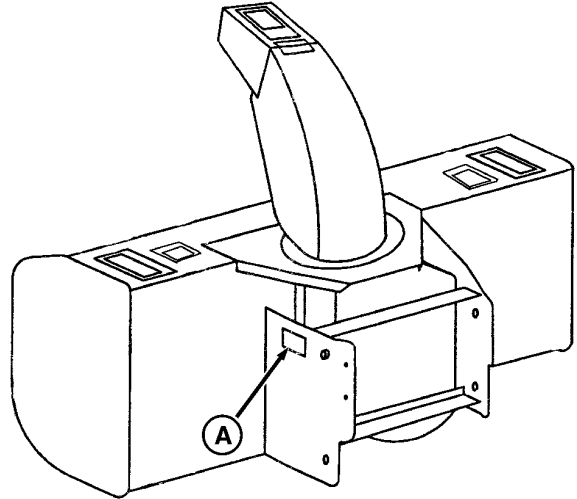
\_\_\_\_\_

DEALER PHONE:

\_\_\_\_\_

PRODUCT SERIAL NUMBER (A):

\_\_\_\_\_



A—Serial Number Location

MXT013797 —UN—27APR15

UP00731,00001B1 -19-07FEB17-1/1

# Safety

## Read Safety in Machine Operator's Manual

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

TH84124,0000132 -19-22MAY13-1/1

## Understand Signal Words

**DANGER;** The signal word DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

**WARNING;** The signal word WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

**CAUTION;** The signal word CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury. CAUTION may also be used to alert against unsafe practices associated with events which could lead to personal injury.

A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards. DANGER or WARNING safety signs are located near specific hazards. General

precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.

 **DANGER**

 **WARNING**

 **CAUTION**

TS187 —19—30SEP88

DX,SIGNAL -19-05OCT16-1/1

## 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.

TH84124,0000134 -19-22MAY13-1/1

## 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).
- Let engine and machine adjust to outdoor temperatures before starting to clean snow.
- 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.

UP00731,00002DF -19-18FEB15-1/1

## Operation

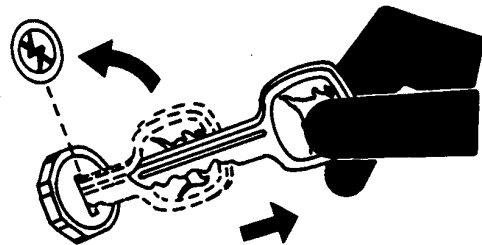
- Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
- Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic.
- After striking a foreign object, stop the engine, remove the spark plug wire, thoroughly inspect the snowblower for any damage, and repair the damage before restarting and operating the snowblower.
- 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 snowblower 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 snowblower is transported or not in use.
- Use only attachments and accessories approved by the manufacturer of the snowblower (such as wheel weights, counterweights, and cabs).
- Never operate the snowblower without good visibility or light.

TH84124,0000136 -19-06JUN13-1/1

## Park Machine Safely

Before working on the machine:

- Lower all equipment to the ground.
- Stop the engine and remove the key.
- Disconnect the battery ground strap.
- Hang a "DO NOT OPERATE" tag in operator station.



TS230 —UN—24MAY89

DX,PARK -19-04JUN90-1/1

## Clearing a Clogged Discharge Chute

- Hand contact with the rotating impeller inside the discharge chute is the most common cause of injury associated with snowblowers. 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.

TH84124,0000138 -19-06JUN13-1/1

## 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 snowblower is to be stored for an extended period.
- Maintain or replace safety and instruction labels as necessary.
- Run the machine a few minutes after blowing snow to prevent freeze up of the collector or impeller.

TH84124,0000139 -19-06JUN13-1/1

## 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.

TH84124,000013A -19-22MAY13-1/1

## 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.

TH84124,000013B -19-22MAY13-1/1

## 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.

TH84124,000013C -19-22MAY13-1/1



## Stay Clear of Rotating Drivelines

Entanglement in rotating driveline can cause serious injury or death.

Keep all shields in place at all times. Make sure rotating shields turn freely.

Wear close-fitting clothing. Stop the engine and be sure that all rotating parts and drivelines are stopped before making adjustments, connections, or performing any type of service on engine or machine driven equipment.



T51644 —UN—22AUG95

DX,ROTATING -19-18AUG09-1/1

## Avoid High-Pressure Fluids

Inspect hydraulic hoses periodically – at least once per year – for leakage, kinking, cuts, cracks, abrasion, blisters, corrosion, exposed wire braid or any other signs of wear or damage.

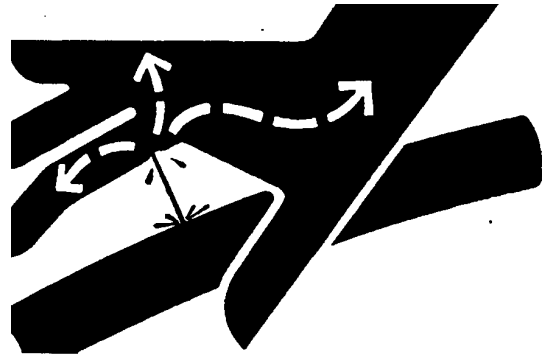
Replace worn or damaged hose assemblies immediately with John Deere approved replacement parts.

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



X9811 —UN—23AUG88

with this type of injury should reference a knowledgeable medical source. Such information is available in English from Deere & Company Medical Department in Moline, Illinois, U.S.A., by calling 1-800-822-8262 or +1 309-748-5636.

DX,FLUID -19-12OCT11-1/1

# Safety Labels

## 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. DANGER or WARNING safety labels are located near specific 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.

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

- **DANGER;** The signal word DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.
- **WARNING;** The signal word WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.
- **CAUTION;** The signal word CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury. CAUTION may also be used to alert against unsafe practices associated with events which could lead to personal injury.



Replace missing or damaged safety labels. Use this operator's manual for correct safety label placement.

There can be more safety information contained on parts and components sourced from suppliers that is not reproduced in this operator's manual.

### French or Spanish Safety Labels and Operator's Manual

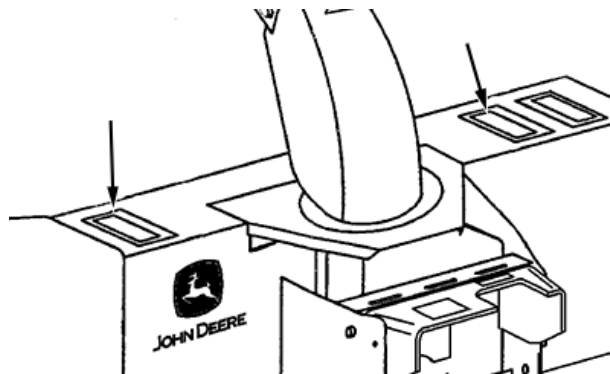
Operator's manuals and safety labels with content in French or Spanish are available for this machine through authorized John Deere dealers. See your John Deere dealer.

MXAL42363 —UN—22MAY13

UP00731,00001F2 -19-26MAR18-1/1

## Danger

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



*Danger Label—M144853*

MXT007249 —UN—16MAY13

LV27871 —UN—02MAR17

UP00731,00001F3 -19-02MAR17-1/1

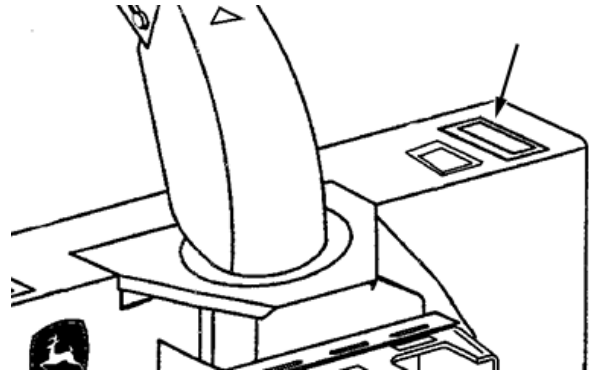
## Warning and Caution

### TO AVOID INJURY FROM THROWN OBJECTS

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

### To avoid injury from loss of braking or steering,

- Install ballast per operator's manual.



Warning and Caution—M144854

UP00731,00001F4 -19-02MAR17-1/1

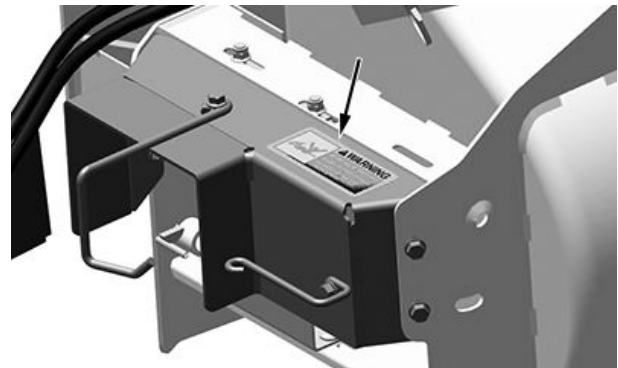
MXTO07248 —UN—16MAY13

LV27872 —UN—02MAR17

## Danger

### AVOID INJURY FROM PTO

- Keep all shields in place.
- Keep hands, feet, and clothing, away.



DANGER—R122717

UP00731,00001F5 -19-27MAR17-1/1

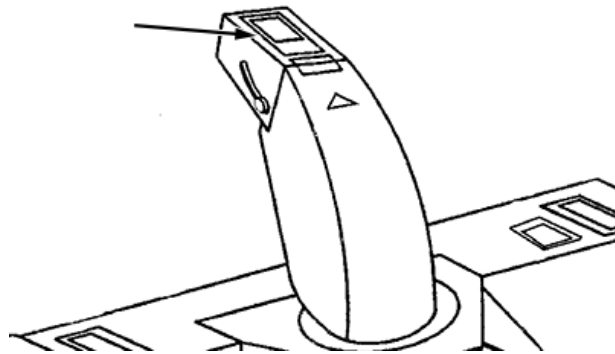
LV21308 —UN—06MAR14

LV28071 —UN—27MAR17

## Danger

### ROTATING BLADE

- Shut off engine before unclogging discharge chute.



Danger—M154693

MXT007250 —UN—16MAY13

LV27874 —UN—02MAR17

UP00731,00001F6 -19-02MAR17-1/1

## Danger Label—Driveline

GUARD MISSING

DO NOT OPERATE



UP00731,0000351 -19-21JUN17-1/1

LV27885 —UN—22JUN17

LV28774 —UN—21JUN17

## Danger Label—Driveline

DANGER

ROTATING DRIVE SHAFT CONTACT CAN CAUSE DEATH

KEEP AWAY!

Do not operate without -

- All drive shaft guards, tractor and equipment shields in place
- Drive shaft securely attached at both ends
- Drive shaft guards that turn freely on drive shaft
- Reading operator's manual

DO NOT USE PTO ADAPTORS



UP00731,0000352 -19-22JUN17-1/1

LV28775 —UN—22JUN17

LV28773 —UN—21JUN17

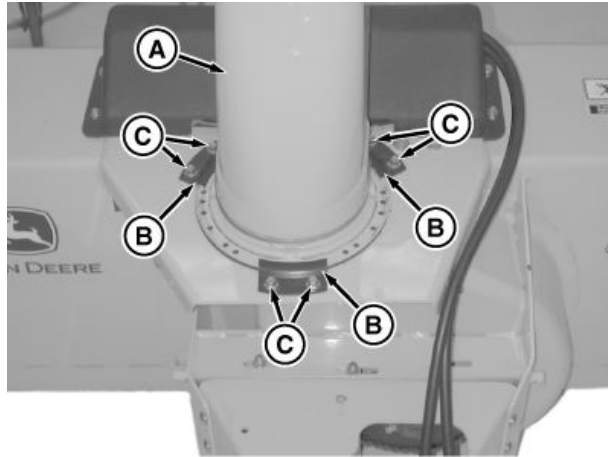
# Assembly

## Install Discharge Chute

1. Put light coat of John Deere Moly High Temperature EP Grease or an equivalent onto discharge chute base and install discharge chute (A).
2. Install three large clips (B) with six self-tapping screws (C).
3. Tighten screws. Chute should rotate freely after tightening.

A—Discharge Chute  
B—Clip

C—Self-Tapping Screw, M8x20



MXT013802 —UN—29APR15

UP00731,00001F7 -19-02MAR17-1/1

## Install Discharge Chute Cables

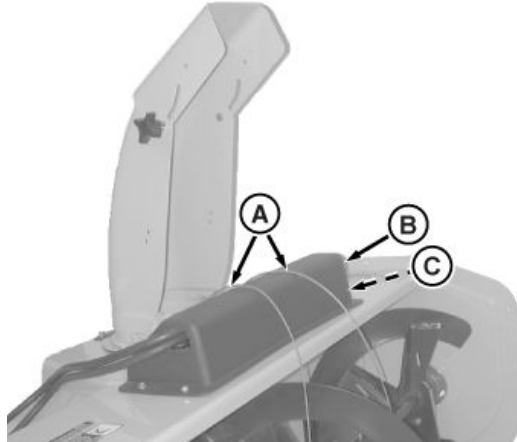
1. Lay cables (A) over attachment shell.

**IMPORTANT: Avoid damage! Hydraulic cylinder plunger must be in the retracted position (all the way in the cylinder) when beginning this procedure.**

2. Remove black cable shield (B) and bracket (C). Verify that cables are still on pulleys.
3. Rotate chute right.

A—Cable  
B—Black Cable Shield

C—Bracket



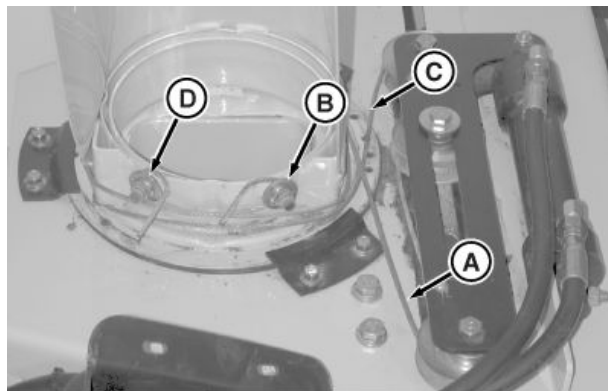
MXT013803 —UN—27APR15

UP00731,00001F8 -19-02MAR17-1/2

4. Stand behind attachment. Take right cable (A) and wrap around chute counterclockwise.
5. Use locking pliers and pull cable tight around threaded stud, and behind locknut and washer (B).
6. Tighten nut.
7. Wrap left cable (C) around chute clockwise.
8. Use locking pliers and pull cable tight around threaded stud, and behind locknut and washer (D).
9. Tighten nut.
10. Tuck excess ends of cables under cable.

**IMPORTANT: Avoid damage! Make sure that you install the long cap screw through the black cable shield and bracket.**

11. Install black cable shield and bracket.



A—Right Cable  
B—Washer

C—Left Cable  
D—Washer

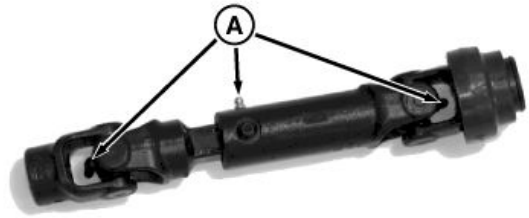
MXT013804 —UN—08MAY15

UP00731,00001F8 -19-02MAR17-2/2

## Install Driveshaft

1. Lubricate driveshaft grease fittings (A) with John Deere Moly High Temperature EP Grease or an equivalent.
2. Extend and retract driveshaft to cycle grease across driveshaft. Apply additional grease as needed.

**A—Grease Fitting**



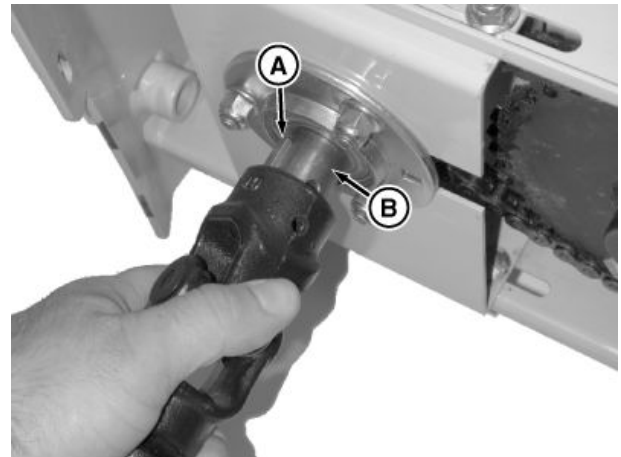
MXT013805 —UN—24MAR15

UP00731,00001F9 -19-24APR17-1/3

3. Install woodruff key (A) in the gear case shaft groove.
4. Apply John Deere NEVER-SEEZ lubricant or equivalent on sprocket shaft (B).
5. Align groove in driveshaft with the key on the sprocket shaft and push driveshaft on sprocket shaft.

**A—Woodruff Key**

**B—Sprocket Shaft**



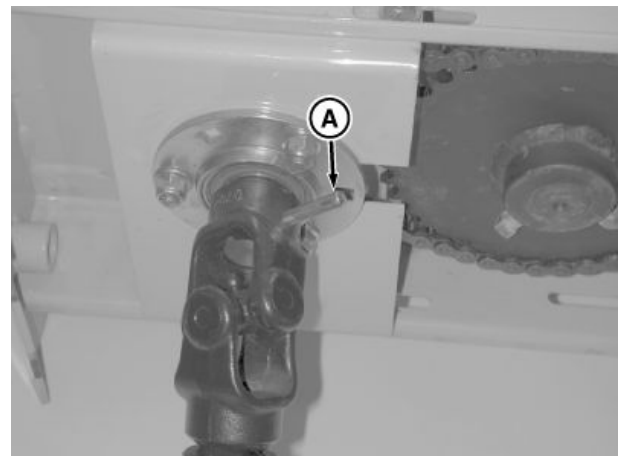
*Shield has been removed for clarity.*

MXT013806 —UN—24MAR15

UP00731,00001F9 -19-24APR17-2/3

6. Align holes on the sprocket shaft with holes in driveshaft and install the rolled pin (A) through both shafts.
7. Install plastic coated retainer wire through rolled pin and twist both ends of wire together a minimum of three times.

**A—Rolled Pin**



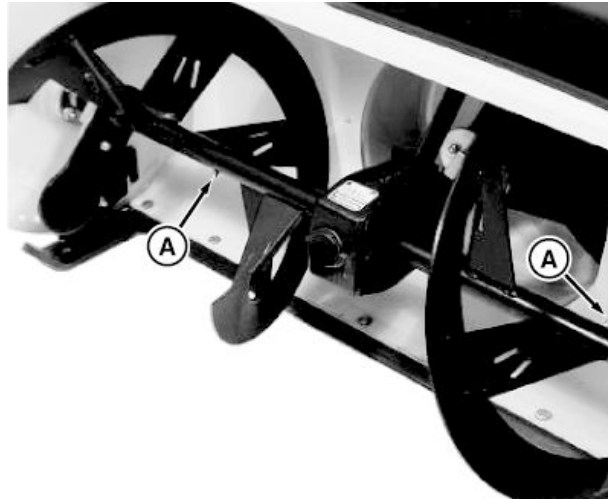
MXT013807 —UN—24MAR15

UP00731,00001F9 -19-24APR17-3/3

## Lubricate Auger Shaft

1. Locate grease fittings (A).
2. Lubricate grease fittings with John Deere Moly High Temperature EP Grease or an equivalent.

A—Grease Fitting



MXT013808 —UN—24MAR15

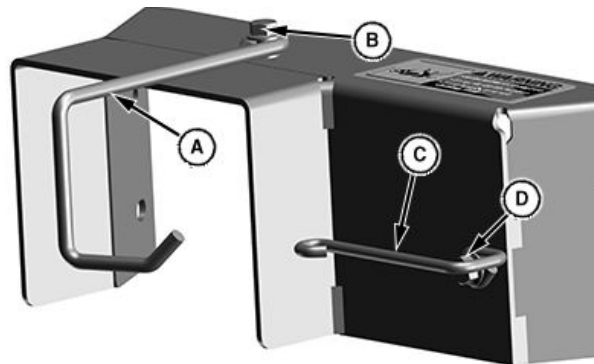
UP00731,00001FA -19-01MAR17-1/1

## Install Driveshaft and Hose Storage Support

1. Install driveshaft support (A) and secure with cap screw (B), washer, and nut.
2. Install hose storage support (C) and secure with cap screw (D) and nut.

A—Driveshaft Support  
B—Cap Screw

C—Hose Storage Support  
D—Cap Screw



LV27789 —UN—09MAR17

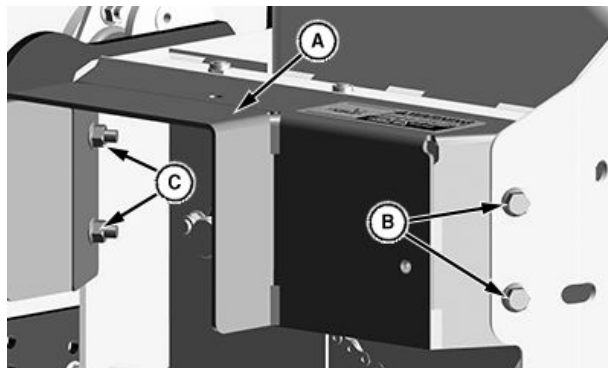
UP00731,00001FD -19-09MAR17-1/1

## Install PTO Shield

1. Install shield (A) on snowblower. Secure with four bolts (B) and nuts (C).
2. Tighten nuts.

A—Shield  
B—Bolt

C—Nut



LV27790 —UN—02MAR17

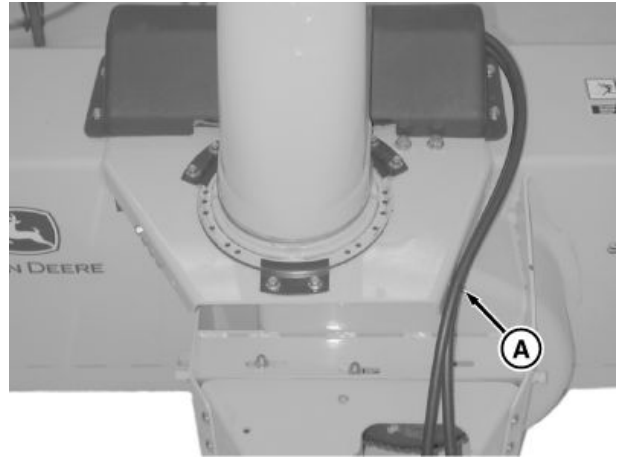
UP00731,00001FB -19-09MAR17-1/1



### Install Tie Strap

1. Install tie strap (A) through hole on right side of attachment.
2. Fasten hydraulic hoses to attachment housing with tie strap.

A—Tie Strap



MXT013810—UN—29APR15

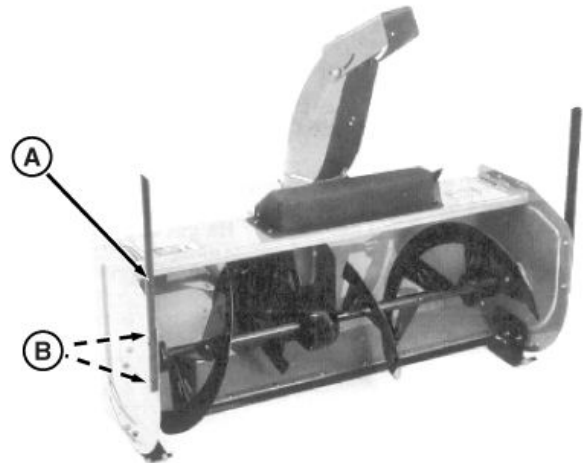
UP00731,00001FC -19-01MAR17-1/1

### Install Drift Blades

1. Install drift blade (A) with cap screws and locknuts to outside of attachment housing.
2. Tighten nuts.

A—Drift Blade

B—Cap Screw, M6x25



*Note, shown with second optional drift blade. One included with snowblower.*

MXT013813—UN—08MAY15

UP00731,00001FE -19-01MAR17-1/1

## Preparing Vehicle

### Prepare Machine

Installation of the following kits is required for operation of snowblower:

- Dual Selective Control Valve (SCV)

- Front PTO Kit
- Front Attaching Support Kit
- Front Hitch Kit

UP00731,00001BA -19-02MAR17-1/1

# Installing

## Install Ballast

**CAUTION:** Machine can become unstable when operating with attachment.

Ballast is required when the attachment is raised.

When the attachment is removed, also remove any ballast that was added to the machine.

Use only attachments and accessories recommended by the manufacturer.

- Two tire weights

To improve traction:

*NOTE: Certain working conditions may be improved by using tire chains or rear ballast.*

- Install chains on rear drive tires.
- Install wheel weights on rear drive wheels.
- Install liquid ballast in rear drive tires.
- Install ballast box and weight.

Required ballast:

UP00731,00001FF -19-01MAR17-1/1

## Install Snowblower on Front Hitch

1. Review the tractor operator's manual for information on using the hydraulic selective control valve (SCV) and dual selective control valve lock lever.

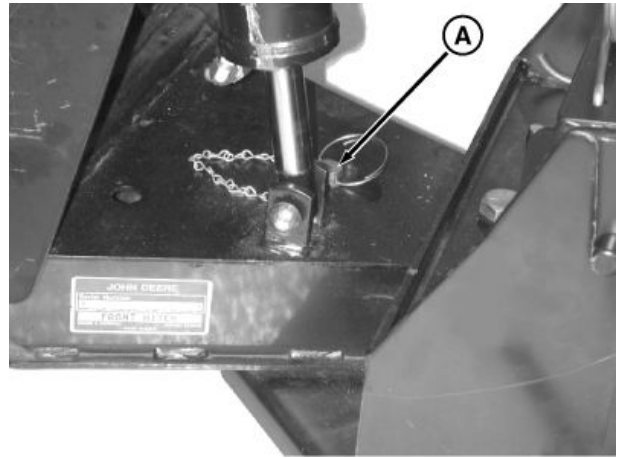
**IMPORTANT: Avoid damage! To prevent damage to driveshaft:**

- Do not angle the snow removal attachment.
- Put attachment driveshaft on the support rod before driving machine forward.

2. Park machine safely.

**IMPORTANT: Avoid damage! Use locking pin to prevent front hitch from angling when using attachment.**

3. Insert locking pin assembly (A) in the front hole on the front hitch and fasten with spring locking pin.



MXT013814 —UN—24MAR15

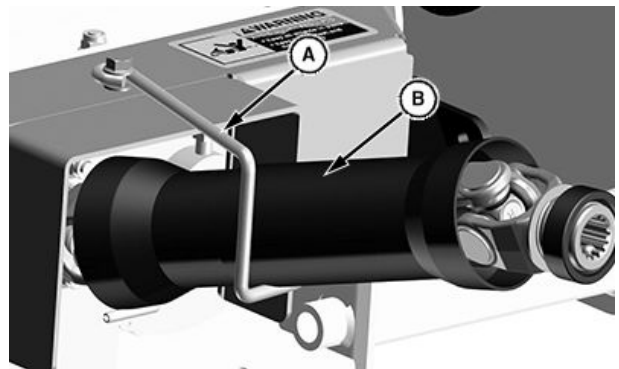
UP00731,00001BB -19-06MAR17-1/4

4. Install driveshaft (B) on the support rod (A).

5. Lower front hitch.

A—Support Rod

B—Driveshaft

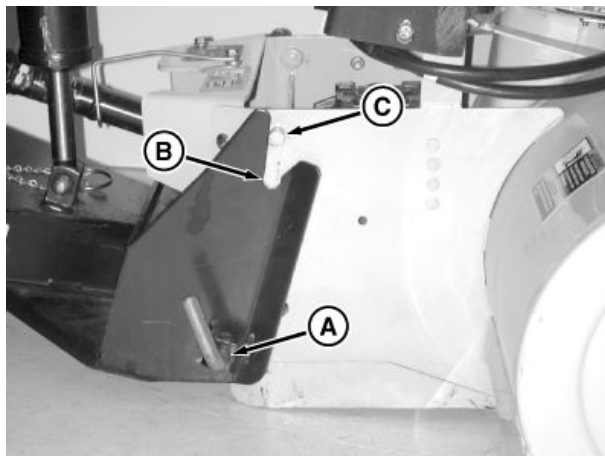


LV27788 —UN—02MAR17

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UP00731,00001BB -19-06MAR17-2/4

6. Move machine forward slowly until slot (B) on the front hitch bracket lines up with pin (C) on attachment.

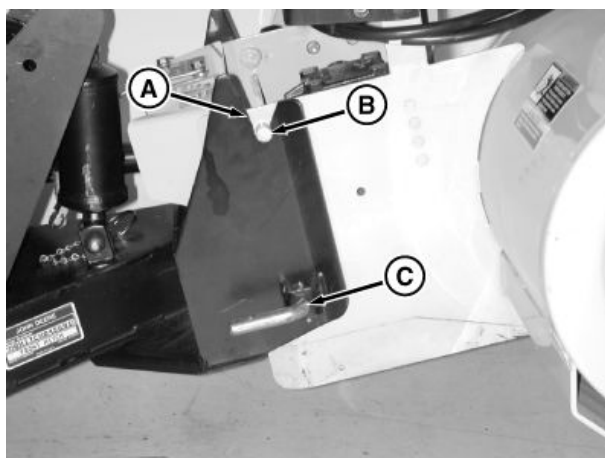


MXT013815 —JUN—24MAR15

*Picture Note: Locking pin lever (A) on each side of front hitch bracket must be in the unlocked position shown.*

UP00731,00001BB -19-06MAR17-3/4

7. Raise front hitch until slot (A) locks in place under pin (B) and locking pins (C) click into the hitch bracket.
8. Lower attachment to ground.
9. Install hose locking ring to right side of the front hitch.
  - Locking ring can remain installed when the attachment is removed.

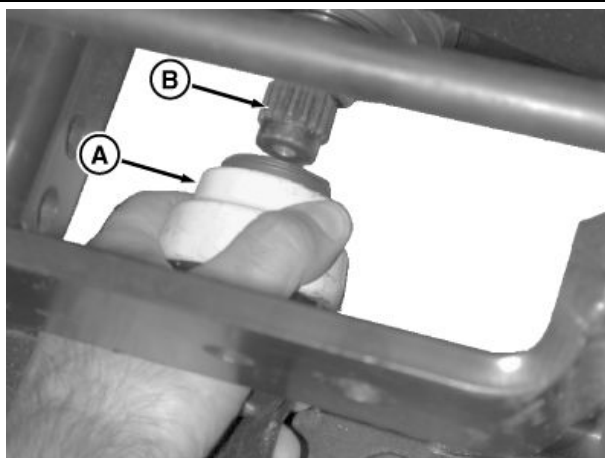


MXT013816 —JUN—24MAR15

UP00731,00001BB -19-06MAR17-4/4

## Connect Driveshaft

1. Park machine safely.
2. Remove the attachment driveshaft from support rod.
3. Pull the coupler (A) on the driveshaft back until the coupler locks in the open position.
4. Push the driveshaft onto the front PTO (B) until the coupler locks into place.



MXT013817 —JUN—24MAR15

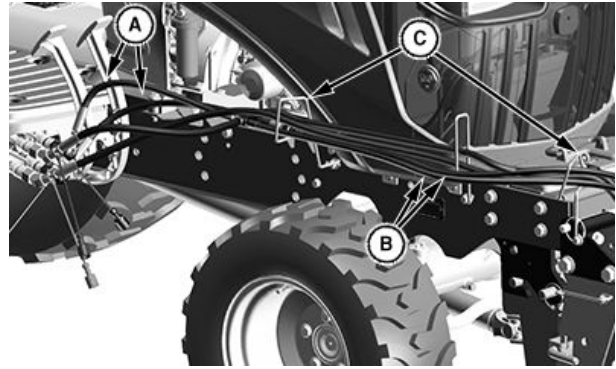
UP00731,00001BC -19-02MAR17-1/1

## Connect Hydraulic Hoses

1. Move the hydraulic control levers back and forth to relieve hydraulic pressure.

**CAUTION:** Avoid injury! Escaping fluid under pressure can penetrate skin and cause serious injury, including gangrene.

- Relieve the pressure before disconnecting hydraulic or other pressurized lines.
  - Use a piece of cardboard to search for leaks. Do not expose the hands or body to high-pressure fluids.
  - Tighten all the connections before applying pressure.
2. If the machine is equipped with angling kit, disconnect the angling kit hoses from machine and secure them.
  3. Install the two hose extensions (A) on the hydraulic hose.
  4. Route the hydraulic chute hoses (B) through all the hose guides (C) as shown.



5. Connect the hoses to the hydraulic outlet on the machine.
6. Match the color on the hose with the color on the machine port and install the attachment hoses in ports.
7. Install the coupler dust plugs in the hose dust covers for storage.

UP00731,00001BD -19-09MAR17-1/1

LV27786—UN—09MAR17

## Check Hydraulic Hose and Fluid Level

**CAUTION:** Avoid injury! Escaping fluid under pressure can penetrate skin and cause serious injury, including gangrene.

- Relieve pressure before disconnecting the hydraulic or other pressurized lines.
- Use a piece of cardboard to search for leaks. Do not expose hands or body to high pressure fluids.
- Tighten all connections before applying pressure.

1. Remove the transaxle hydraulic fluid dip stick.
2. Check the fluid level. Add fluid if necessary.
3. Replace the dip stick.
4. Start the engine.
5. Move the hydraulic control levers back and forth to check for leaks.

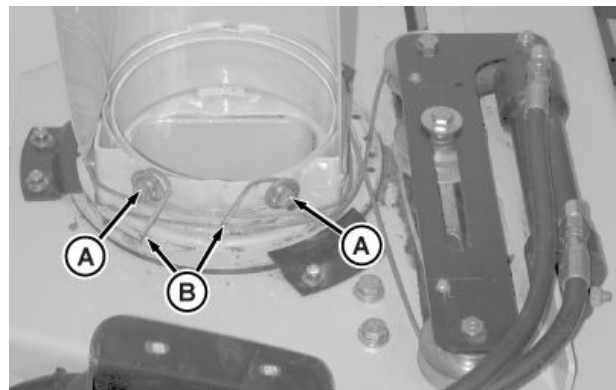
UP00731,00001BE -19-02MAR17-1/1

## Check Discharge Chute Rotation

1. Start the engine.
  - To rotate the chute to the right, move the dual SCV lever to the right.
  - To rotate the chute to the left, move the dual SCV lever to the left.

**IMPORTANT:** Avoid damage! Ensure proper rotation of chute. Position chute to face right (as viewed from seat) before adjusting cables.

2. Chute turns 100° to each side. If it does not:
  - Stop the engine and park the machine safely.
  - Loosen the nuts (A).
  - Pull the cable ends (B) tighter.



- Tighten the nuts.

UP00731,00001BF -19-02MAR17-1/1

MXTO14426—UN—10JUN15

# Remove and Store

## Remove Ballast

1. Park the machine safely.
2. Remove the ballast that was installed on tractor for implement operation.

UP00731,0000200 -19-02MAR17-1/1

## Disconnect Hydraulic Hose

1. Park the machine safely.
2. Move the hydraulic control levers back and forth several times to relieve the hydraulic pressure.

**⚠ CAUTION: Avoid injury! Escaping fluid under pressure can penetrate skin and cause serious injury, including gangrene.**

- Relieve pressure before disconnecting hydraulic or other pressurized lines.

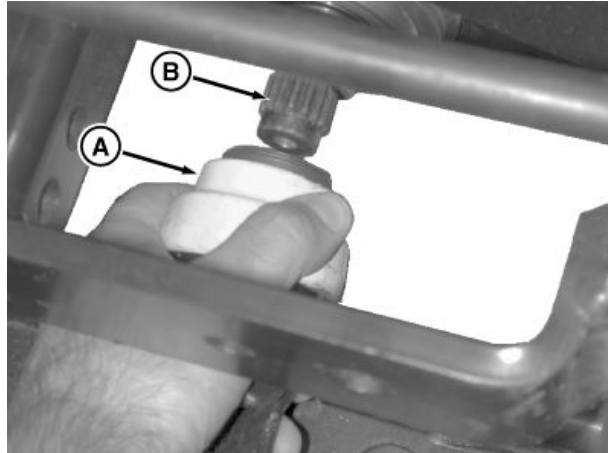
- Use a piece of cardboard to search for leaks. Do not expose hands or body to high-pressure fluids.
- Tighten all connections before applying pressure.

3. Disconnect the hydraulic hoses from the hydraulic couplers and remove the hoses from the machine.
4. Install the dust covers on hydraulic hose ends, and secure hoses to the snowblower.
5. Install the coupler dust plugs in the couplers.
6. Install angling kit hoses to ports if installed on machine.

UP00731,0000201 -19-06MAR17-1/1

## Disconnect Driveshaft from Tractor

1. Park the machine safely.
2. Pull back coupler (A) on the driveshaft to release the collar.
3. Pull driveshaft off the tractor PTO shaft (B).
4. Install the driveshaft onto support rod.

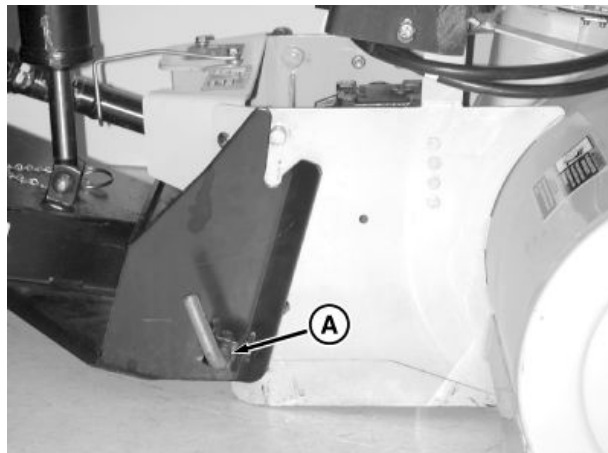


MXT013817 —JUN—24MAR15

UP00731,0000202 -19-02MAR17-1/1

## Remove Snowblower from Front Hitch

1. Park the machine safely.
2. Connect angling kit hoses if installed on machine.
3. Move lever (A) to the unlatched position.
4. Lower front hitch.
5. Slowly back the machine away from the snowblower.
6. Park the machine safely.

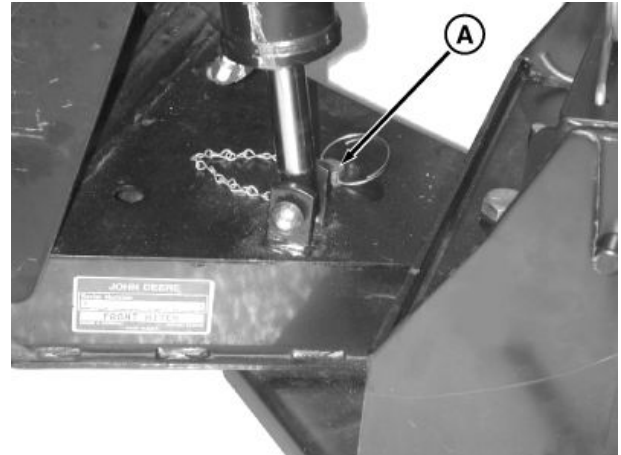


MXT013822 —JUN—24MAR15

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UP00731,0000208 -19-02MAR17-1/2

7. Remove locking pin (A) from front hole on front hitch. Insert in storage hole and fasten with spring locking pin.



MXT013814—UN—24MAR15

UP00731,0000208 -19-02MAR17-2/2

## Store Safely

**CAUTION:** Avoid injury! Fuel vapors are explosive and flammable. Engine exhaust fumes contain carbon monoxide and can cause serious illness or death:

- Run the engine only long enough to move the machine to or from storage.
- Machine fires and structure fires can occur if a machine is stored before allowing it to cool, or if debris is not removed from around the engine and muffler, or if stored near combustible materials.
- Do not store vehicle with fuel in the tank inside a building where fumes may reach an open flame or spark.
- Allow the engine to cool before storing the machine in any enclosure.

*NOTE: Some of the following steps may not apply to your attachment.*

1. Remove any snow or ice from snowblower attachment.
2. Remove attachment from machine.

3. Clean attachment and drive shaft, if equipped, with water pressure from a hose.
4. Remove any shields if needed to clean out all debris.
5. Repair or replace worn, bent, or damaged parts. Tighten loose hardware.
6. Apply paint to painted surfaces where needed to prevent rust.
7. Apply thin coat of grease to blades or tines to prevent rust.
8. Lubricate any pivot points with engine oil to prevent rust.
9. Lubricate any grease points.

**IMPORTANT: Avoid damage! Abrasive surfaces can damage attachment. Store attachment on non-abrasive surface or on wooden blocks.**

10. If storing attachment outdoors, block up attachment if possible and place a waterproof cover over it.

UP00731,0000209 -19-02MAR17-1/1

# Operate

## Raise and Lower Attachment

**CAUTION:** Avoid injury! Attachment can lower rapidly. Keep bystanders, especially children, away from attachment when raising and lowering.

1. To lower the snowblower, move the dual SCV lever forward.
2. To raise the snowblower, move the dual SCV lever rearward.

UP00731,0000205 -19-02MAR17-1/1

## Operate Snowblower

Review the safety and control lever information in your tractor operator's manual prior to operating the snowblower.

1. Start the tractor engine.
2. Push the dual SCV lever forward to lower the snowblower completely to the ground and lock it into the float position.
3. Adjust the engine throttle setting to the rpm indicated in the tractor operator's manual.

4. Engage the PTO.

*NOTE: Operate the snowblower at full throttle position for the best performance.*

5. Move the engine throttle to full throttle position.
6. Unlock the tractor park brake.
7. Begin forward travel slowly.

UP00731,0000206 -19-02MAR17-1/1

## Disengage Snowblower

1. Stop the tractor forward travel.
2. Adjust the engine throttle setting to the rpm indicated in the tractor operator's manual.

3. Run the snowblower for several minutes after blowing snow to prevent freeze-up of the auger and impeller.
4. Disengage PTO.
5. Push the dual SCV lever forward to lower the snowblower completely to the ground.

UP00731,0000207 -19-02MAR17-1/1

## Turn Discharge Chute

1. To rotate the chute to the right, move the dual SCV lever to the right.

2. To rotate the chute to the left, move the dual SCV lever to the left.

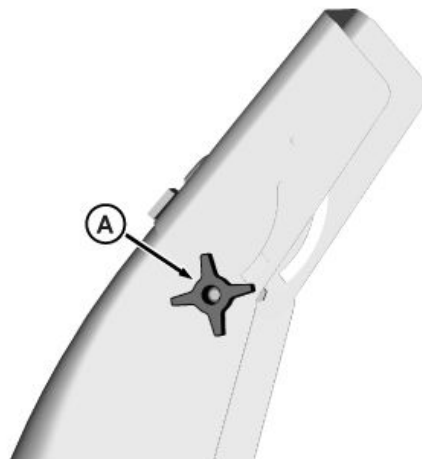
UP00731,00001C3 -19-02MAR17-1/1

## Adjust Spout

**CAUTION:** Avoid injury! Before you adjust the spout:

- Stop the attachment.
- Stop the engine.
- Lower the attachment to the ground.
- Lock the park brake.
- Wait for all moving parts to stop.

1. Park the machine safely.
2. Loosen the knob (A).
3. Move the spout to desired position.
4. Tighten the knob.



MXT014414 —JUN—15MAY15

UP00731,00001C4 -19-02MAR17-1/1



## Adjust Skid Shoes

**NOTE:** Before using the attachment on gravel or rough surfaces, mount both skid shoes at lowest position. (A negative clearance means that the shoe is mounted above the blade.)

Skid Shoe Mounting		
Position	Blade Clearance	
A	-10 mm	-3/8 in.
B	12 mm	1/2 in.
C	25 mm	1 in.
D	45 mm	1-3/4 in.
*The optional heavy-duty flat scraper blade would allow for 10 mm (3/8 in) additional clearance.		

**NOTE:** Use position A or B with skid shoe mounted inside only.

Use position C with skid shoe mounted either inside or outside.

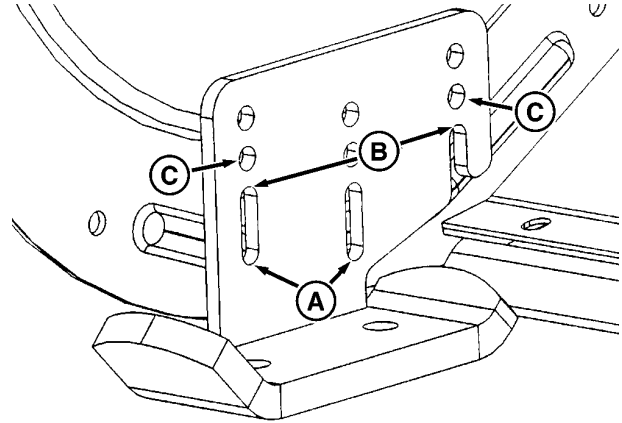
Use position D with skid shoe mounted outside only.

### To Clear Snow from a Smooth Surface

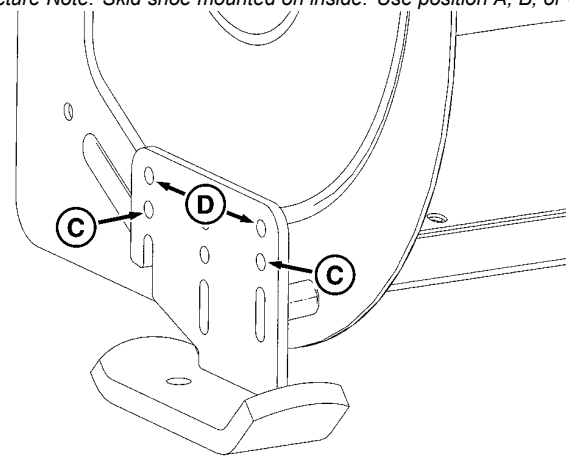
1. Lower the attachment to the ground.
2. Remove cap screws and locknuts on each skid shoe.
3. Insert the cap screws into position A or B.
4. Tighten locknuts.

### To Clear Snow from Gravel or Rough Surface

1. Lower attachment to the ground.
2. Remove cap screws and locknuts on each skid shoe.
3. Insert cap screws in position C or D.



Picture Note: Skid shoe mounted on inside. Use position A, B, or C.



Picture Note: Skid shoe mounted on outside. Use position C or D.

4. Tighten locknuts.

UP00731,00001C5 -19-02MAR17-1/1

MXT013824 —UN—24MAR15

MXT013825 —UN—24MAR15

# Service

## Service Intervals

### Before Each Use

- Lubricate the discharge chute.

### Beginning of Season

- Adjust and lubricate drive chain (if equipped).

- Check snowblower drive gearbox (if equipped) and auger gearbox oil levels.
- Lubricate auger shaft, if equipped.

### Every 25 Hours and End of Season

- Lubricate three grease points on drive shaft.
- Adjust and lubricate drive chain (if equipped).

UP00731,00005A4 -19-28JUN18-1/1

## Grease

**IMPORTANT: Avoid damage! Use recommended John Deere greases to avoid component failure and premature wear.**

**The recommended John Deere greases are effective within an average air temperature range of -29 to 135 degrees C (-20 to 275 degrees F).**

**If operating outside that temperature range, contact your Servicing dealer for a special-use grease.**

### The following greases are preferred:

- John Deere Multi-Purpose SD Polyurea Grease
- John Deere Multi-Purpose HD Lithium Complex Grease

If not using any of the preferred greases, be sure to use a general all-purpose grease with an NLGI grade No.2 rating.

Wet or high speed conditions may require use of a special-use grease. Contact your Servicing dealer for information.

UP00731,00001C8 -19-07FEB17-1/1

## Gearbox Oil

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

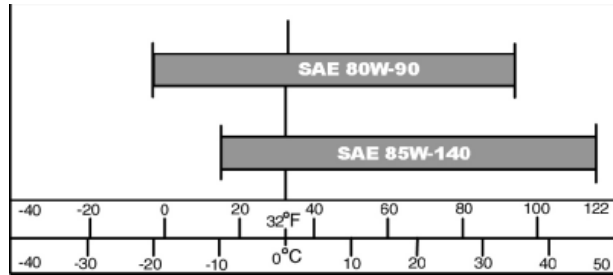
The following John Deere gearbox oil is preferred:

- GL-5 GEAR LUBRICANT® (SAE 80W-90)

The following John Deere gearbox oil is also recommended if preferred oil is not available:

- GL-5 GEAR LUBRICANT® (SAE 85W-140)

Other gearbox oils may be used if recommended John Deere oils are not available, provided they meet the following specification:



MXT007237 —UN—15MAY13

- API Service Classification GL-5.

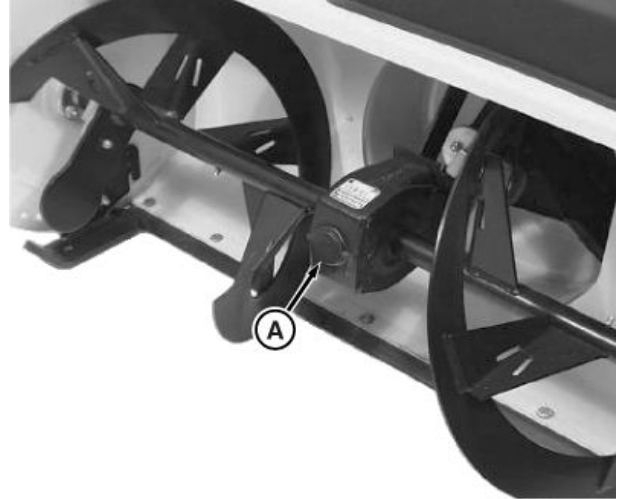
UP00731,00001C9 -19-07FEB17-1/1

## Check Gearbox Oil

Neither the auger gearbox nor snowblower drive gearbox are serviceable. However, both gearboxes have removable plugs for checking oil level, and adding oil if necessary.

To check gearbox oil levels:

1. Remove filler plug (A). Oil should be even with bottom of hole.
2. If oil is low, add 80W-90 GL-5 Gear Oil.
3. Install plug.



MX TO14132 —UN—28APR15

UP00731,00001CA -19-02MAR17-1/1

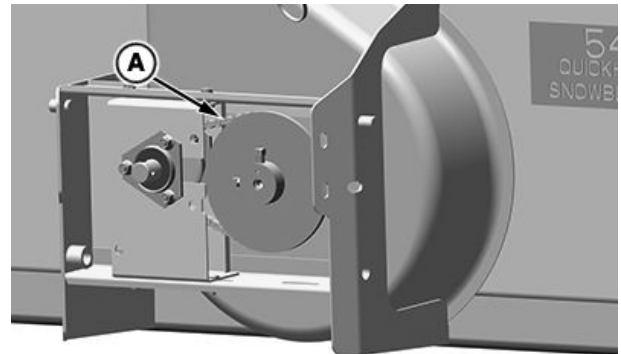
## Drive System Maintenance

If your snow blower has an exposed drive chain (A), follow the instructions for “Adjusting and Lubricating Drive Chain”. If your snow blower has an enclosed chain (B), follow the instructions for “Checking Oil in Enclosed Chain Housing”.

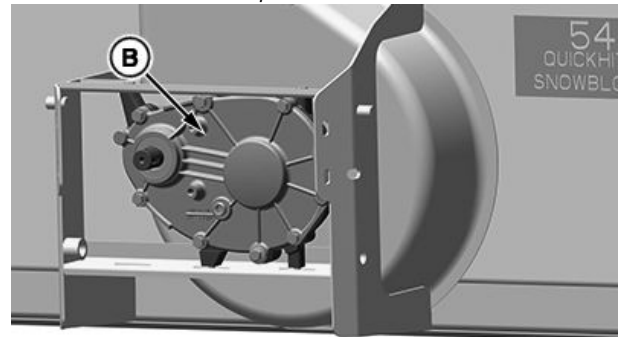
**⚠ CAUTION: Avoid injury! Do not operate snow removal attachment without the chain shield.**

A—Exposed Chain Drive

B—Enclosed Chain Drive



*Exposed Chain Drive*



*Enclosed Chain Drive*

LV30109 —UN—28JUN18

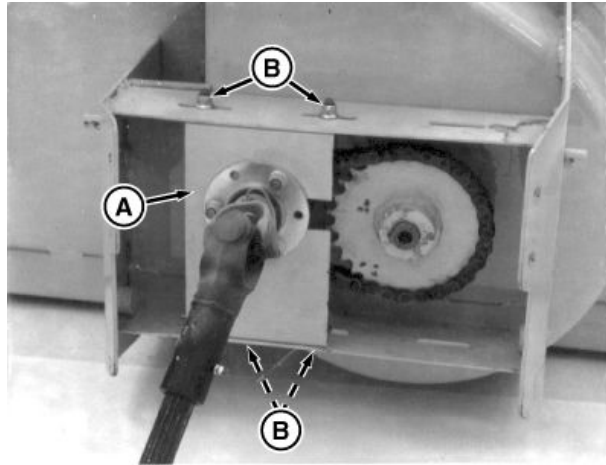
LV30110 —UN—28JUN18

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UP00731,00005A5 -19-28JUN18-1/3

### Adjust and Lubricate Drive Chain

1. Park machine safely.
2. Disconnect driveshaft from the machine.
3. Move chain shield (A) left to provide tension on the chain. Deflection should be 4.7—10 mm (3/16—3/8 in).
4. Adjust chain, if necessary:
  - Loosen four locknuts (B) on chain shield.
  - Slide chain shield to the right or left until deflection measurement is right.
  - Hold chain shield in place and tighten nut.
5. Rotate auger several turns and make sure that chain has at least 4.7 mm (3/16 in) deflection at all times.
6. Lubricate chain with John Deere TY 6240 Chain Lube Spray or equivalent.
7. Start engine. Run snowblower briefly to distribute oil.
8. Stop engine. Wipe off excess oil.



9. Check condition of the chain and sprockets. Replace if necessary.

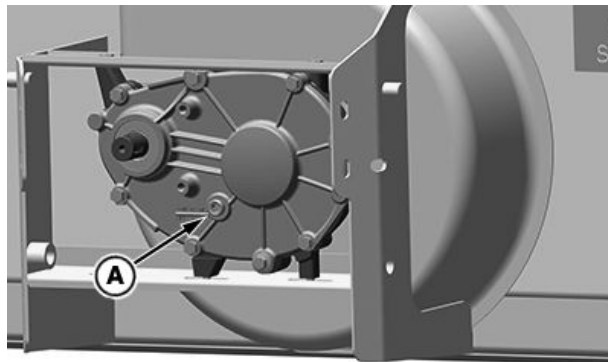
UP00731,00005A5 -19-28JUN18-2/3

MXT013826 —UN—24MAR15

### Checking Oil in Enclosed Chain Housing

1. Park machine safely.
2. Disconnect drive shaft from machine and remove snow blower from quick hitch.
3. Set snow blower on level ground.
4. Remove filler plug (A). Oil should be even with bottom of hole.
5. If oil is low, add GL-5 Gear Oil (80W-90).
6. Install plug.
7. No further maintenance is required.

A—Filler plug

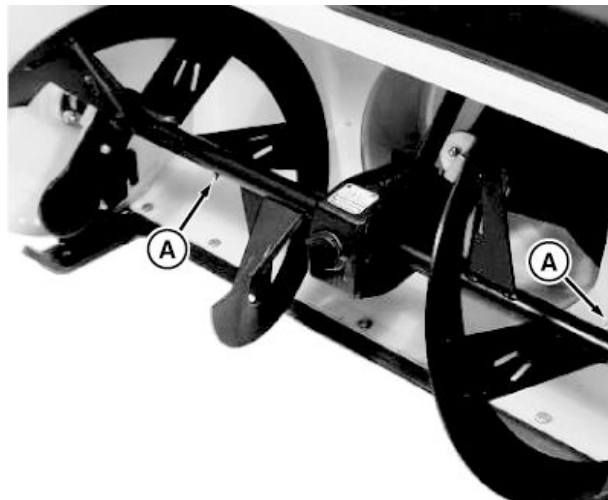


UP00731,00005A5 -19-28JUN18-3/3

LV30205 —UN—28JUN18

### Lubricate Auger Shaft and Driveshaft

1. Lubricate grease fittings (A) with John Deere Moly High Temperature EP Grease or equivalent.

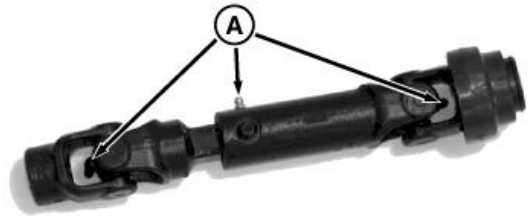


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UP00731,00001CC -19-02MAR17-1/2

MXT013808 —UN—24MAR15

2. Lubricate grease fittings (A) with John Deere Moly High Temperature EP Grease or equivalent.
3. Extend and retract driveshaft several times to distribute grease on the driveshaft. Add grease as necessary.



MXT013805 —UN—24MAR15

UP00731,00001CC -19-02MAR17-2/2

## Replace Shear Bolt

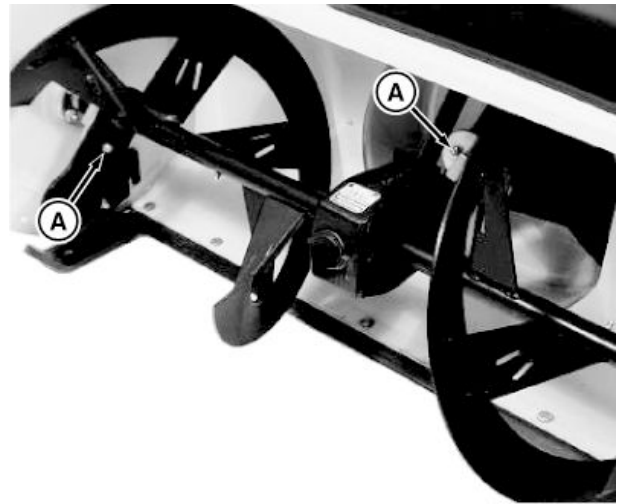
**IMPORTANT: Avoid damage! Replacement shear bolts must be the same as original shear bolts on attachment:**

**Softer bolts can shear too easily.**

**Harder bolts may not shear and attachment can be damaged.**

*NOTE: When the auger hits an object, a shear bolt may break. This breakage helps prevent damage to rotor and snowblower. Replace broken shear bolts.*

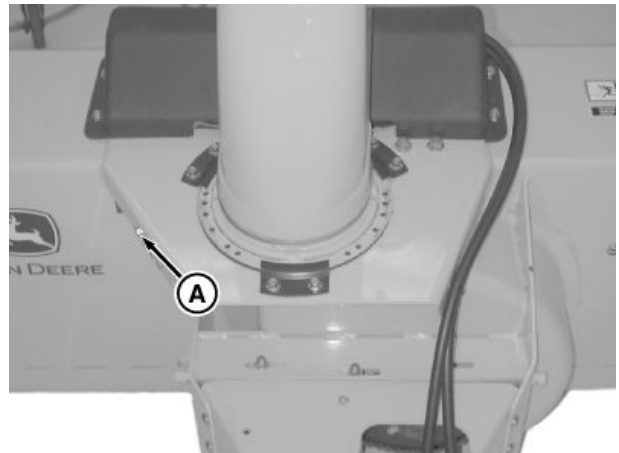
1. Park machine safely.
2. Remove broken shear bolt (A), one from each end, or one from impeller.



MXT013828 —UN—24MAR15

UP00731,00001CD -19-02MAR17-1/2

3. Turn auger or blower impeller to line up holes in shaft. Remove spare shear bolt (A) from snowblower.
4. Install bolt and nut. Tighten so that the paddles the shear bolt connects are touching. Do not overtighten the nut.
5. Find and correct the cause for shearing.

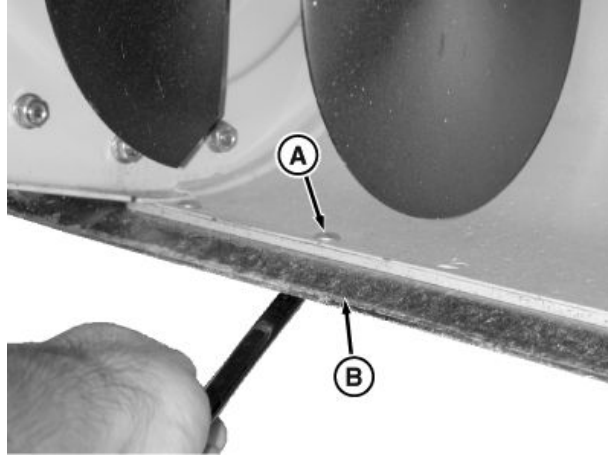


MXT013829 —UN—22MAY15

UP00731,00001CD -19-02MAR17-2/2

## Service Scraper Blade

1. Check scraper blade for wear or damage.
2. Raise attachment.
3. Place wood blocks under collector assembly.
4. Lower attachment onto blocks.
5. Remove nuts from bolts (A).
6. Turn scraper blade (B) end-for-end or replace the blade if both sides are worn.
7. Install scraper blade.
8. Tighten bolts.



MXT013830 —UN—06MAY15

UP00731,00001CE -19-02MAR17-1/1

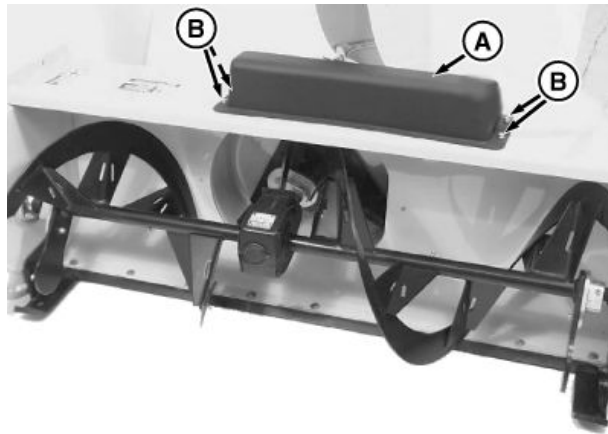
## Remove Discharge Chute Cables

**NOTE:** When removing the black cable shield (A) an angle bracket falls from underneath the attachment. This bracket needs to be installed again when the black cable shield is installed.

1. Park machine safely.
2. Remove black cable shield (A) and angle bracket by removing four locknuts and cap screws (B).

A—Cable Shield

B—Cap Screw



MXT013831 —UN—24MAR15

UP00731,00001CF -19-02MAR17-1/3

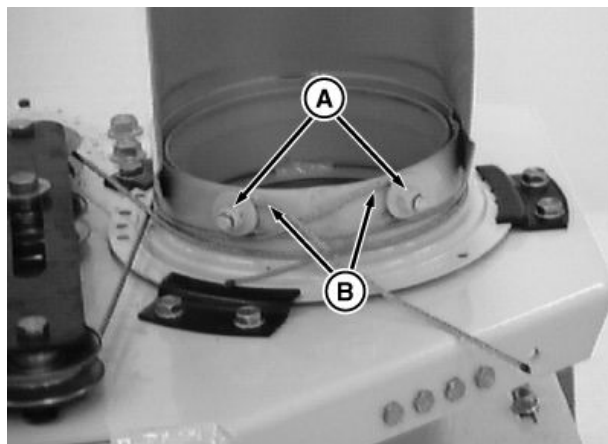
3. Loosen locknuts (A) on the discharge chute.

**NOTE:** For ease of assembly and proper cable routing, remove one cable at a time.

4. Remove cables (B) from attachment.

A—Locknut

B—Cable



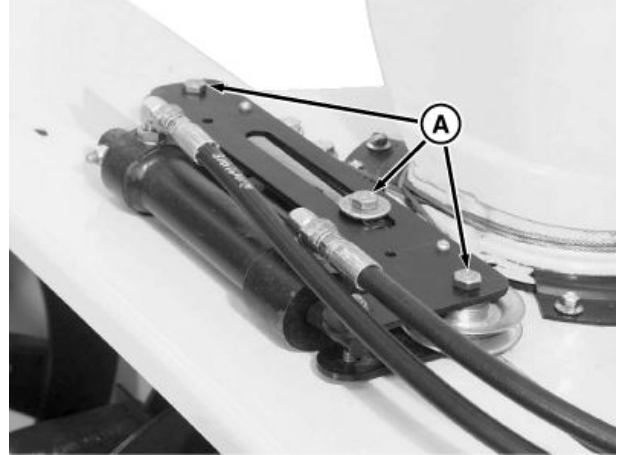
MXT013832 —UN—24MAR15

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UP00731,00001CF -19-02MAR17-2/3

5. Remove cables from pulleys (A).
6. Install new cables on pulleys.

A—Pulley



MXT013833 —UN—24MAR15

UP00731,00001CF -19-02MAR17-3/3

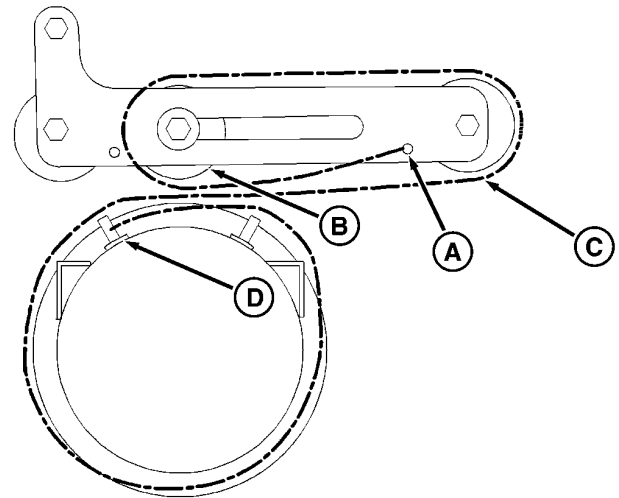
## Replace Discharge Chute Cables

### Replace Right Cable

**IMPORTANT: Avoid damage! Hydraulic cylinder plunger must be in the retracted position (all the way in the cylinder) when beginning this procedure.**

*NOTE: For ease of assembly and proper cable routing, replace one cable at a time. Route right cable around attachment first.*

1. Rotate discharge chute to the right (as viewed from seat) to retract hydraulic cylinder plunger.
2. Standing at the rear of attachment, insert cable through hole (A).
3. Wrap cable around middle pulley (B), and around right pulley (C).
4. Wrap cable counterclockwise around the discharge chute and place it around threaded stud, behind washer and locknut (D).



A—Hole  
B—Middle Pulley

C—Right pulley  
D—Locknut

MXT013834 —UN—24MAR15

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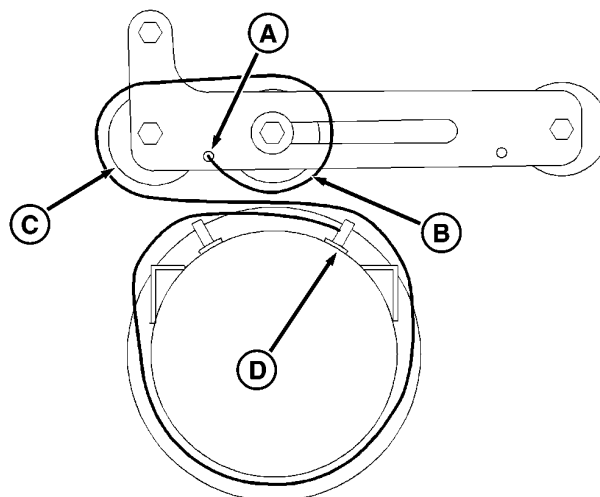
UP00731,00001D0 -19-02MAR17-1/4

## Replace Left Cable

**IMPORTANT:** Avoid damage! Hydraulic cylinder plunger must be in the retracted position (all the way in the cylinder) when beginning this procedure.

**NOTE:** For ease of assembly and proper cable routing, replace one cable at a time. Route right cable around snowblower first, then rout left cable.

1. Rotate discharge chute to the right (as viewed from seat) to retract hydraulic cylinder plunger.
2. Standing at the rear of attachment, insert cable through hole (A).
3. Wrap cable around middle pulley (B), and round left pulley (C).
4. Wrap cable clockwise around the discharge chute and place it around threaded stud, behind washer and locknut (D).

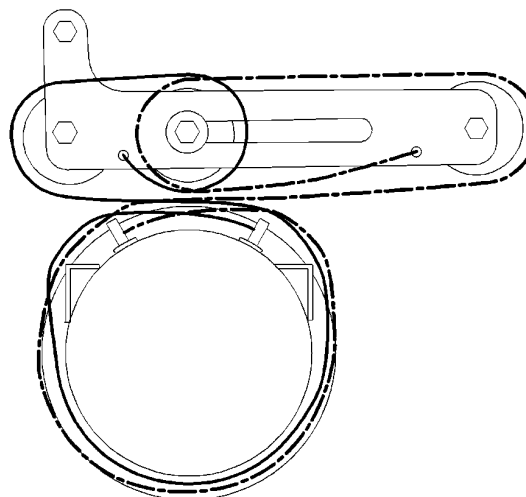


A—Hole  
B—Middle Pulley

C—Left pulley  
D—Locknut

UP00731,00001D0 -19-02MAR17-2/4

MXT013835 —UN—06MAY15



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UP00731,00001D0 -19-02MAR17-3/4

MXT013836 —UN—06MAY15



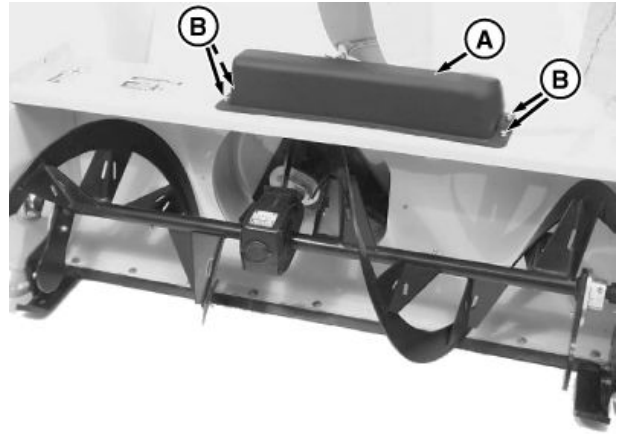
**Cover Assembly**

**IMPORTANT: Avoid damage! Make sure that you install the long cap screws through the black cable shield and bracket.**

1. Install cable shield (A) and angle bracket and fasten with four cap screws (B) and locknuts.
2. Tighten locknuts.

A—Shield

B—Screw



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# Troubleshooting

## Using Troubleshooting Chart

If you are experiencing a problem that is not listed in this chart, see your authorized dealer for service.  
When you have checked all the possible causes listed and you are still experiencing the problem, see your authorized dealer

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## Snowblower Troubleshooting

IF	CHECK
Auger or Impeller Will Not Turn	Replace broken shear bolt.
Machine Rear Wheel Slip	Install chains or ballast. (See Install Chains or Ballast in PREPARE MACHINE section.)
Operation is Erratic	Tighten drive chain. Lubricate grease points Replace or repair bend scraper blade(s). Adjust skid shoes for conditions.
Chute Moves in Wrong Direction	Reverse hydraulic hoses.

UP00731,00001D2 -19-07FEB17-1/1

# Specifications

## Snowblower Specifications

### 47 Inch Snowblower

Clearing Width .....	1.3 m (47 in.)
Height to top of spout.....	78 cm (30-5/8 in.)
Length .....	69 cm (27 in.)
Lift Height .....	279 mm (11 in.)
Net Weight .....	110 kg (240 lb.)
Scraper Blade (Replaceable and Reversible) ...	1.1 m (43-13/16 in.)
Discharge Chute	
Control .....	Hydraulic
Rotation .....	100° to each side
Snowblower Drive .....	Splined coupler shaft to gear case
Snowblower Lift .....	Hydraulic
Rotor	
Length .....	1 m (39-3/8 in.)
Auger Speed .....	176 rpm
Auger Diameter .....	40.6 cm (16 in.)
Impeller Speed .....	950 rpm
Impeller Diameter .....	40.3 cm (15.5 in.)
Drive .....	Gear case to roller chain
Bearings .....	Sealed ball bearings

### 54 Inch Snowblower

Clearing Width .....	1.40 m (54 in.)
Height to Top of Spout.....	78 cm (30-5/8 in.)
Length .....	69 cm (27 in.)
Lift Height .....	279 mm (11 in.)
Net Weight .....	113 kg (250 lb.)
Scraper Blade Reversible and Replaceable .....	1.3 m (59-15/16 in.)
Discharge Chute	
Control .....	Hydraulic
Rotation .....	100° to each side
Snowblower Drive .....	Splined coupler shaft to gear case
Snowblower Lift .....	Hydraulic
Rotor	
Length .....	1 m (39-3/8 in.)
Auger Speed .....	176 rpm
Auger Diameter .....	40.6 cm (16 in.)
Impeller Speed .....	950 rpm
Impeller Diameter .....	40.3 cm (15.5 in.)
Drive .....	Gear case to roller chain
Bearings .....	Sealed ball bearings

*NOTE: Specifications and design subject to change without notice.*

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# Getting Quality Service

## John Deere Quality

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.



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LVAL38364—UN—21AUG12

### Step 3

Contact John Deere

- 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, contact John Deere for assistance.
- 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 serial number which you recorded on the inside front cover of this manual.
  - Your equipment model number.
  - Number of hours on machine (if applicable).
  - If the problem is with an attachment, your attachment identification number.
- C. Then call 1-800-537-8233 (United States and Canada) and our advisor will work with your dealer to investigate your concern. If you are outside the United States and Canada, contact us at the following website: [www.deere.com/wps/dcom/en\\_US/regional\\_home.page](http://www.deere.com/wps/dcom/en_US/regional_home.page).

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