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Product Manuals

OPERATOR'S MANUAL

Introduction

Using Your Operator's Manual

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

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.

Specifications and design are subject to change without notice.

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Product Identification

Product Compatibility

The 42-Inch Snowblower is compatible with Lawn Tractors.

Record Identification Numbers

42-Inch Snowblower

Serial No. (010001--)

When contacting an Authorized Service Center 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 IDENTIFICATION NUMBER (A):

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Safety Labels

Understanding The Machine Safety Labels



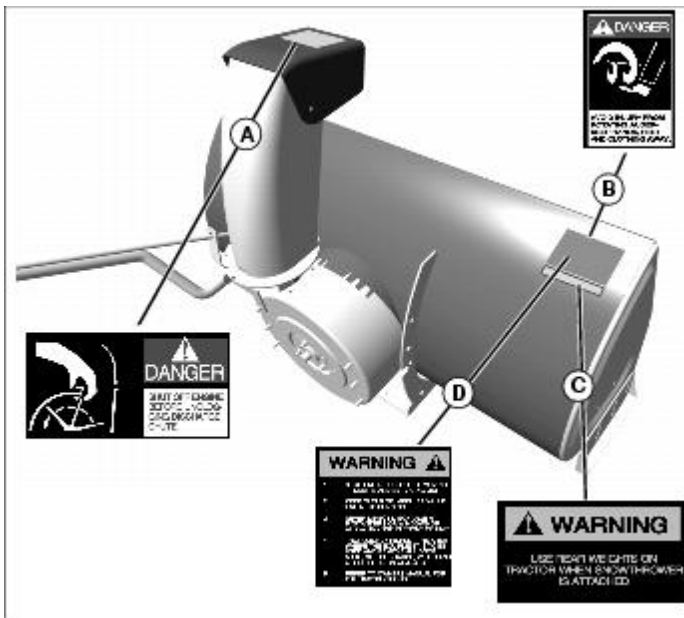
Safety-Alert Symbol

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

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

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

Safety Labels



MX10212, MX10265, MX10266, MX10267

(A) DANGER

Shut off engine before unclogging discharge chute.

(B) DANGER

Avoid injury from rotating auger--keep hands, feet and clothing away.

(C) WARNING

Use rear weights on tractor when snowblower is attached.

(D) WARNING

- Stop engine before removing debris and servicing unit.
- Keep clear of impeller while engine is running.
- Never direct discharge at bystanders or windows or allow anyone in front of unit.
- Thoroughly inspect the area where the equipment is to be used and remove all door mats, sleds, boards, wires and other foreign objects.
- Refer to owners manual for full instructions.

Certification

Your product has been certified by an independent laboratory for

compliance with American National Standard B-71.3, "Safety Specifications" for Snow Throwers.

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Safety

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

Training

- Read the operating and service instruction manual carefully. 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, and pets.

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 outer garments. 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. Replace gasoline cap securely and wipe up spilled fuel.
- 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 clear snow.
- Always wear safety glasses or eye shields during operation or while performing and 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. Do not carry passengers.
- 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. Vibration is generally a warning of trouble.
- 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.
- Take all possible precautions 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. Exercise extreme caution when changing direction on slopes. Do not attempt to clear steep slopes.
- Never operate the snow thrower without proper guards, plates, or other safety protective devices in place.
- Never operate the snow thrower near glass enclosures, automobiles, window wells, drop-off, and the like without proper adjustment of the snow discharge angle. Keep children and pets 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. Use care when backing.
- 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 mower blades or any other attachments.
3. Lower attachments to the ground.
4. Lock the park brake.
5. Stop the engine.
6. Remove the key.
7. Wait for engine and all moving parts to stop before you leave the operator's seat.
8. Close fuel shut-off valve, if your machine is equipped.
9. Disconnect the negative battery cable or remove the spark plug wire (for gasoline engines) before servicing the machine.

Maintenance and Storage

- Check shear bolts, engine mounting 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 instructions for important details if the

snow thrower is to be stored for a long period of time.

- 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

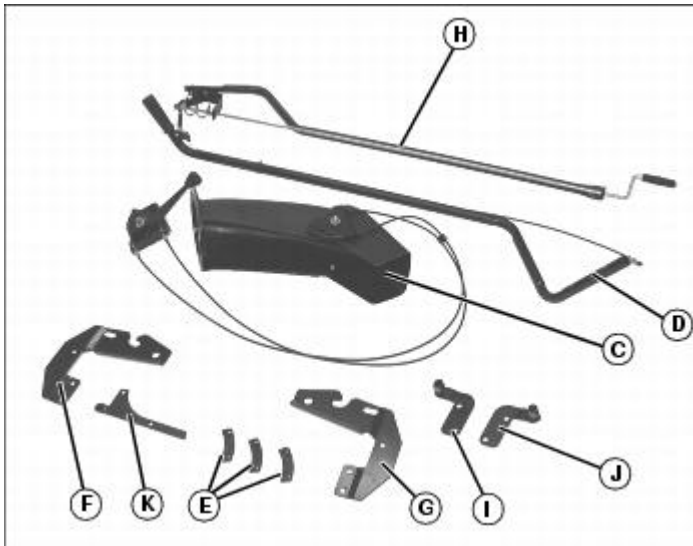
- Raise the attachment when driving between jobs.
- Drive at slow speeds when using the attachment. Be cautious of hidden obstacles.

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Assembly

Identify Parts



MX10240

A - Snowblower Assembly (not shown)

B - Clutch Idler Assembly (not shown)

C - Discharge Chute Assembly

D - Lift Handle Assembly

E - Chute Keeper

F - Left Mounting Bracket

G - Right Mounting Bracket

H - Chute Control Rod

I - Left Hanger Bracket

J - Right Hanger Bracket

K - Anti-Rotation Bracket

Bag of Parts

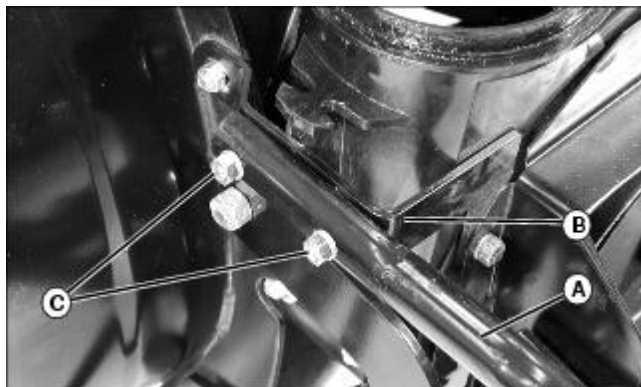
Qty	Description	Size
1	Cable Mount Bracket	
1	Pull Chain Bracket	
2	Pull Chain	
1	Belt Tension Spring	
1	Tie Strap	
1	Conduit Clip	
1	Grip Knob	
2	Rear Reflector	
2	J-Pin	3/8X1-1/2 in.
2	Clevis Pin	5/8X1-1/4 in.
1	Spring Locking Pin	.08X1.58 in.
1	Spring Locking Pin	3/32 in.
6	Spring Locking Pin	1/8 in.
3	Carriage Bolt	5/16X3/4 in.
4	Carriage Bolt	5/16X1-1/4 in.
2	Carriage Bolt	5/16X1-3/4 in.
4	Carriage Bolt	3/8X1 in.
4	Shoulder Bolt	3/8X5/8 in.
6	Hex Bolt	1/4X1 in.
2	Hex Bolt	5/16X1-3/4 in.
1	Hex Bolt	3/8X3/4 in.
6	Hex Bolt	3/8X1 in.
11	Lock Nut w/nylon insert	5/16 in.
6	Lock Nut	1/4 in.
14	Lock Nut w/nylon insert	3/8 in.
3	Washer	5/16 in.
1	Washer	3/8 in.
1	Washer	13/32 in.
2	Washer	17/32 in.
2	Lock Washer	3/8 in.
2	Bowed Washer	
4	Nut	3/8 in.
2	Shear Bolt Sets (spares)	5/16X1-1/2 in.
	Includes:	5/16 in.
	Shear Bolt	

Lock Nut	
----------	--

Identify Machine PTO Type

This snow blower was designed to work on machines equipped with either a mechanical PTO or an electric PTO. Before proceeding, see **Operating Station Controls** section in **machine operator's manual** to identify machine PTO type. Depending on PTO type, some parts in kit will not be used.

Assemble Discharge Chute to Auger Housing



MX10241

Picture Note: Left Side View

1. Assemble chute control rod (A) to bracket on left side of blower housing (B) using two 5/16X1-1/4 in. carriage bolts and 5/16 in. lock nuts w/nylon insert (C).

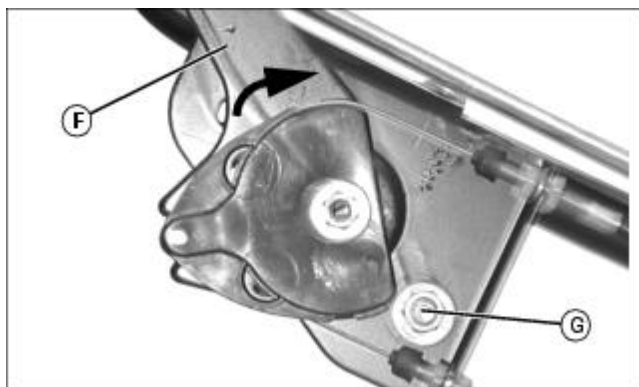


MX10242

Picture Note: Left Side View

2. Attach control portion of discharge chute assembly (D) to top side of chute control rod (A) using two 5/16X1-3/4 in. carriage bolts, bowed

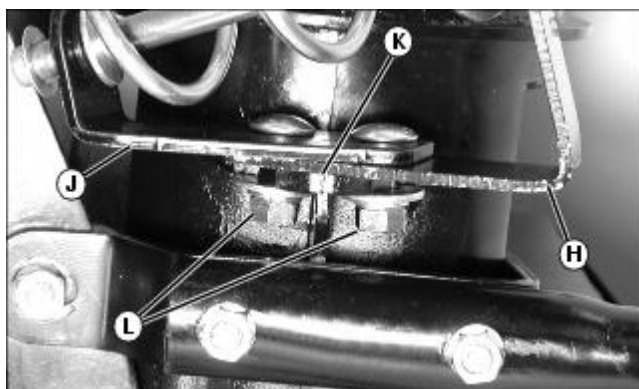
washers, and 5/16 in. lock nuts w/nylon insert (E).



MX10243

Picture Note: Right Side View

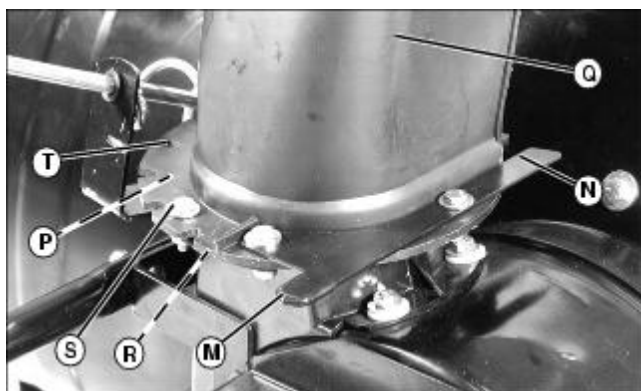
3. Move tilt control handle (F) to forward position. Install 3/8X3/4 in. hex bolt, 13/32 in. washer and 3/8 in. lock nut w/nylon insert (G) through hole in tilt control assembly.



MX10244

Picture Note: Left Side View

4. Align chute crank bracket (H) beneath crank rod support bracket (J) and attach both to plastic bracket (K) on left side of blower housing using two 5/16X1-1/4 in. carriage bolts, 5/16 in. washers and 5/16 in. lock nuts w/nylon inserts (L). Do not tighten.



MX10245

5. Install grip knob (M) on end of anti-rotation bracket (N).
6. Coat top of discharge opening flange (P) with general purpose grease.

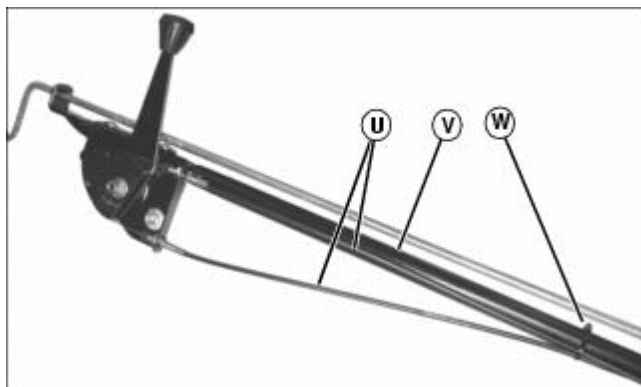
NOTE: To prevent binding of discharge chute, do not tighten plastic chute keepers beyond snug.

7. Place discharge chute (Q) (facing forward) onto discharge opening flange. Place anti-rotation bracket on top of discharge opening flange, aligning it with holes on right side of flange. Attach three chute keepers (R) to bottom of flange using six 1/4X1 in. hex bolts, 1/4 in. washers and 1/4 in. lock nuts (S). Tighten carefully so that nuts are snug but do not dig into plastic chute keepers.

8. Position crank rod spiral so that it does not rub against bottoms of notches in chute flange (T). Tighten 1/4 in. lock nuts.

9. Check crank rod for free rotation. If binding occurs, loosen six 1/4 in. lock nuts by 1/4 turn.

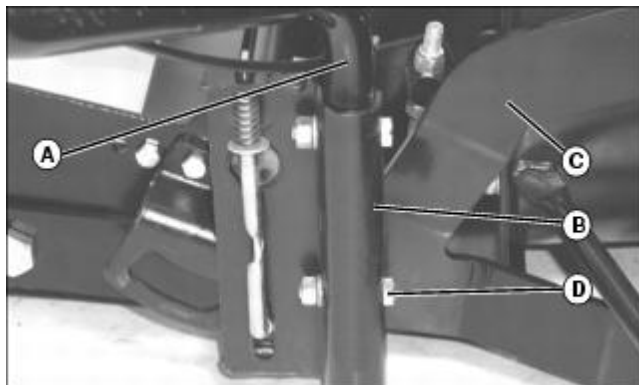
10. Tighten 5/16 in. lock nuts w/nylon inserts installed in step 4.



MX10404

11. Secure control cables (U) to chute control rod (V) with tie strap (W).

Mount Lift Handle

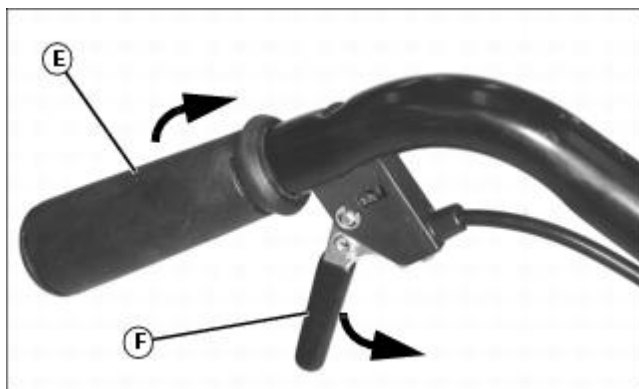


MX10257

Picture Note: Right Side View

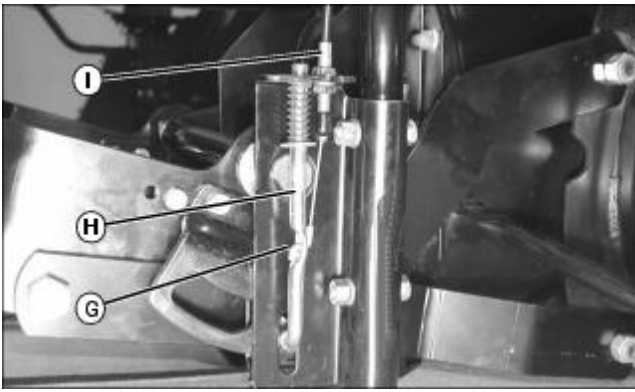
1. Insert lift handle (A) into lift bracket (B) on right side of snow blower assembly (C). Attach lift handle using two 5/16X1-3/4 in. hex bolts and 5/16 in. lock nuts (D).

NOTE: Be sure plastic housing of lift release cable remains fully inserted into trigger assembly.



MX10258

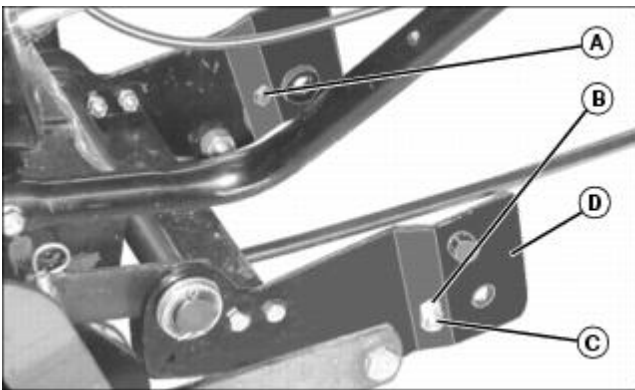
2. Push lift handle (E) all the way forward. Push trigger (F) all the way down.



MX10259

3. Insert end of cable (G) into hole in lift rod (H). Place threaded fitting (I) into slot in lift bracket with one hex nut above and one hex nut and lock washer below slot. Tighten nuts, adjusting to eliminate slack in cable.

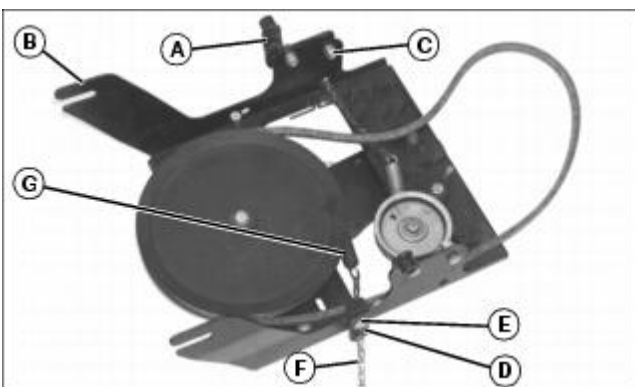
Attach Stop Bolts



MX10402

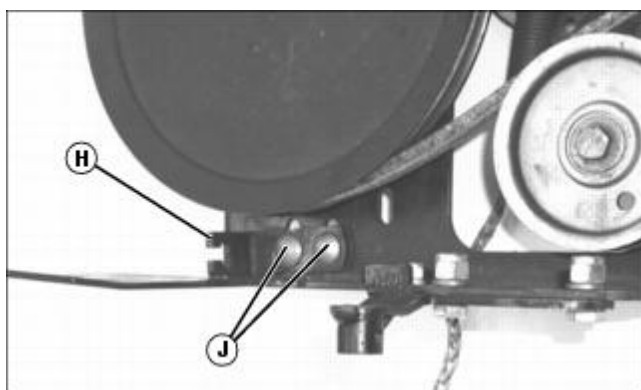
Attach two 3/8X1 in. hex bolts (A), two 3/8 in. nuts (B) and two 3/8 in. lock nuts (C) to snowblower assembly mounting frame (D).

Install Hangers, Chain Bracket and Cable Bracket



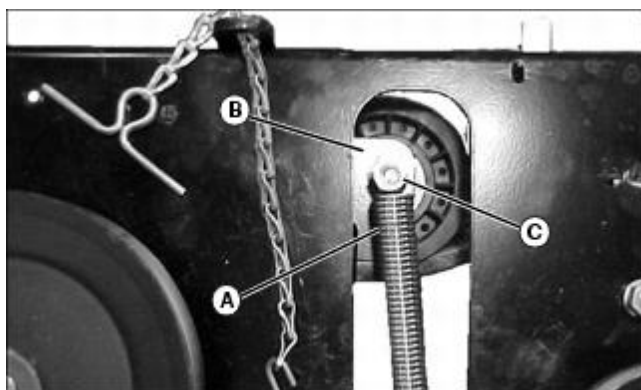
MX10248

1. Attach left hanger bracket (A) to clutch idler assembly (B) using two 3/8X1 in. hex bolts and 3/8 in. lock nuts w/nylon inserts (C).
2. Repeat procedure for right hanger bracket.
3. Attach pull chain bracket (D) using 5/16X3/4 in. carriage bolt, 5/16 in. washer and 5/16 in. lock nut w/nylon insert (E).
4. Insert pull chain (F) through chain bracket to end of tensioner spring (G).



MX10250

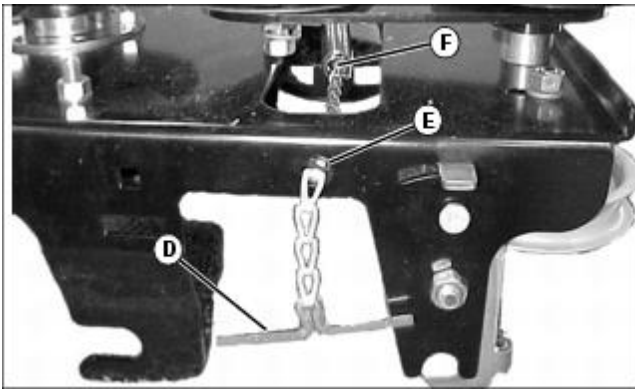
5. Mechanical PTO tractor only: Attach clutch cable bracket (H) to clutch idler assembly (outermost holes) using two 5/16X3/4 in. carriage bolts and 5/16 in. lock nuts w/nylon inserts (J).

Install Upper V-Belt Tensioner (Electric PTO Machine)

MX17899

Picture Note: Viewed from bottom of clutch idler assembly.

1. Attach belt tension spring (A) to bottom side of idler (B) using 3/8 in. lock nut w/nylon insert (C).



MX17900

2. Insert pull chain (D) through clutch idle assembly frame hole (E) and install chain on tension spring (F).

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Preparing Vehicle

Check Tire Pressure

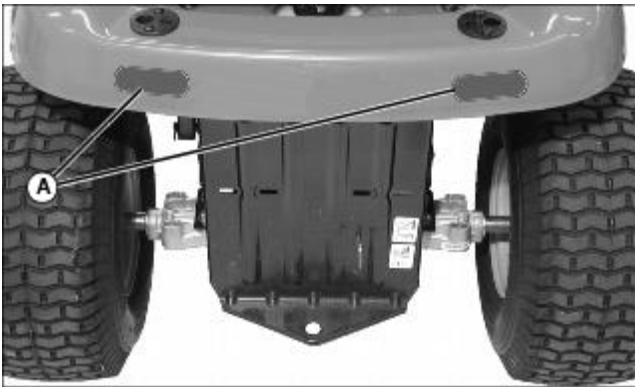
IMPORTANT: Avoid damage! To prevent tire damage, do not use more than maximum tire pressure shown on sidewall of tire.

Check tire pressure with an accurate gauge.

Add or remove air, as necessary.

Front Tire	Rear Tire
100 kPa (14 psi)	70 kPa (10 psi)

Install Reflectors

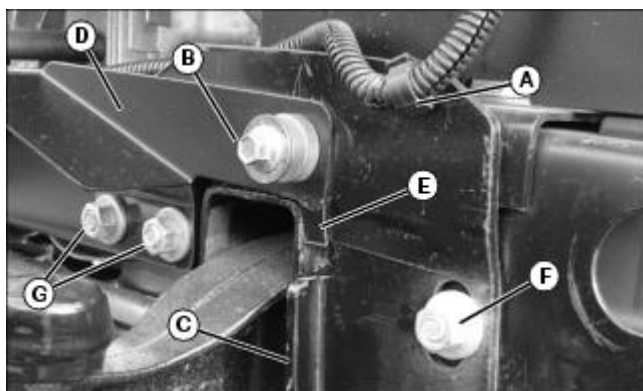


MX10268

Apply two reflectors (A), one on each side of rear fender.

Install Mounting Brackets

NOTE: For easier installation of mounting brackets and snowblower, remove tractor hood.



M12414a

Picture Note: Right Side View

1. Remove conduit clip (A) from tractor frame and move it out of the way.
2. Remove 8 mm bolt and spring mount spacer (B).

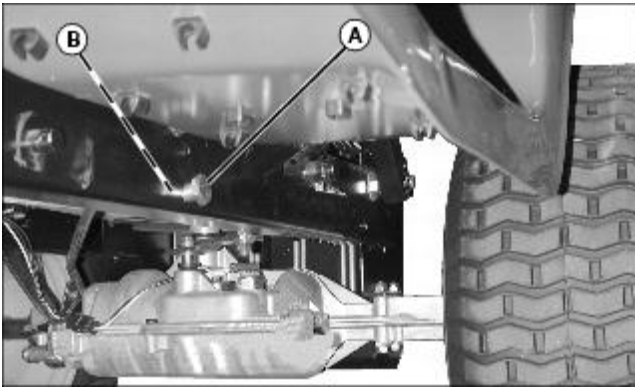
NOTE: If machine is equipped with heat shields/air deflectors, they should be installed on outside of mounting brackets. Order or installation should be (from tractor frame outward): tractor frame, muffler heat shield, mounting bracket, heat shield.

3. Align holes in right mounting bracket (C) and heat shield (D) (if equipped) with holes in tractor frame. Install original 8 mm bolt and spring mount spacer (B). Do not tighten.
4. Bend tab (E) of heat shield (if equipped) in toward tractor frame to prevent it from rotating.
5. Install 3/8X5/8 in. shoulder bolt, 17/32 in. washer, 3/8 in. lock washer and 3/8 in. nut (F). Do not tighten.

IMPORTANT: Avoid damage! Carriage bolts must be properly seated in machine frame. Improperly seated carriage bolts may cause damage to mounting brackets or attachment.

6. Install two 3/8X1 in. carriage bolts and 3/8 in. lock nuts w/nylon inserts (G). Tighten all fasteners, beginning with carriage bolts. Carriage bolts must be properly seated in tractor frame.
7. Install conduit clip (A) on right mounting bracket. If original conduit clip is damaged in removal, use new conduit clip supplied in parts bag.
8. Repeat steps 2 through 6 for left mounting bracket.
9. Replace tractor hood if removed.

Install Shoulder Bolts



MX12415

Picture Note: Left Side View

1. Install 3/8X5/8 in. shoulder bolt (A) and 3/8 in. lock nut w/nylon insert (B) on tractor frame.
2. Repeat procedure for opposite side.

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Installing

Install Machine Weights and Chains



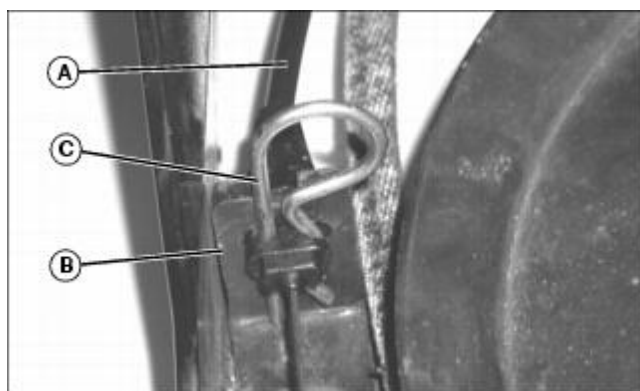
CAUTION: Avoid injury!

- The machine may become unstable when operating with attachment.
- Use of two 19 kg (42 lb.) suitcase weights with weight bracket is required to improve stability when operating with attachment.
- Remove weights from machine after attachment is removed.

NOTE: Before attaching snowblower, remove mower deck from machine.

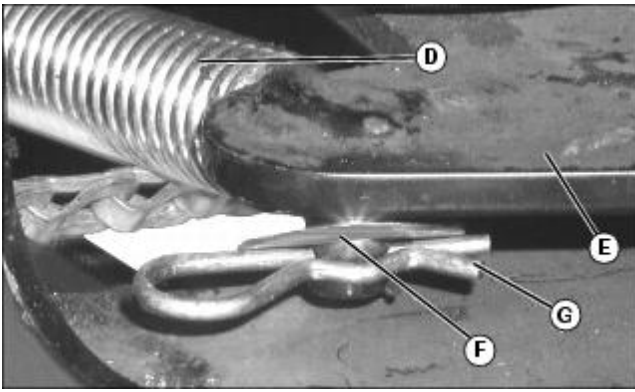
Two 19 kg (42 lb.) rear suitcase weights with weight bracket are required for stability. Rear tire chains are recommended for traction (check your machine operator's manual for tire size). See your Authorized Service Center for tire chain, weight, and weight bracket part numbers.

Connect Clutch Cable (Mechanical PTO Tractors Only)



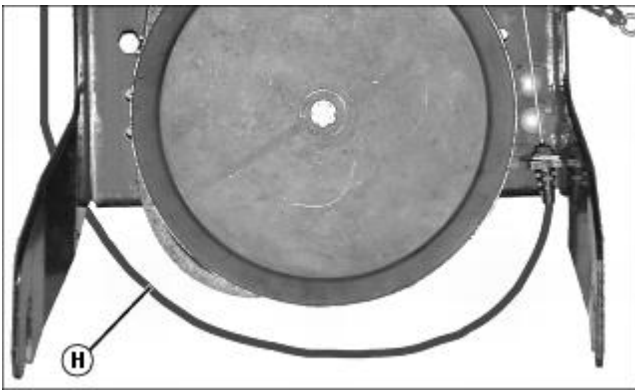
MX10249

1. Push clutch cable (A) through clutch cable bracket (B). Secure with original 1/8 in. spring locking pin (C).



MX10251

2. Attach clutch cable spring (D) to idler bracket (E) using 3/8 in. washer (F) and .08X1.58 spring locking pin (G).



MX12416

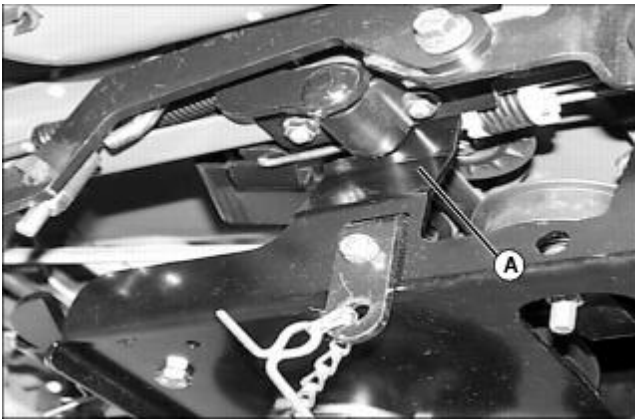
3. Mechanical PTO tractor only: Route clutch cable (H) around left side of clutch frame, beneath large sheave.

Attach Clutch Idler Assembly to Tractor



c CAUTION: Avoid injury! Attachment is heavy.

Keep hands and feet out from under attachment when removing or installing.

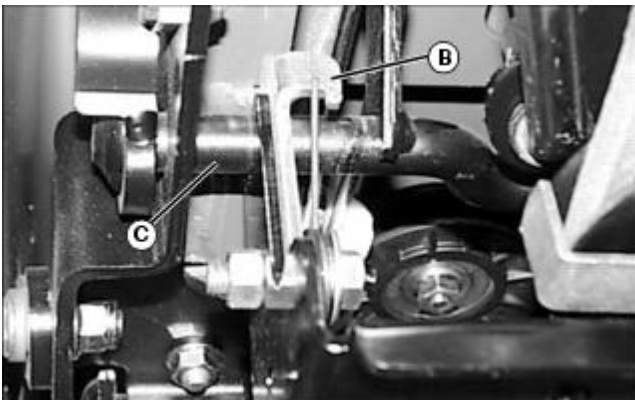


MX30663

Picture Note: Right Side View

1. Slide rear slots of clutch idler assembly (A) onto tractor rockshaft inside of tractor frame.

IMPORTANT: Avoid damage! Both hooks need to be latched in order to avoid damage to assembly.




MX30653

Picture Note: Right Side View

2. Raise front of clutch idler assembly until spring hooks (B) latch over tractor brake shaft (C).

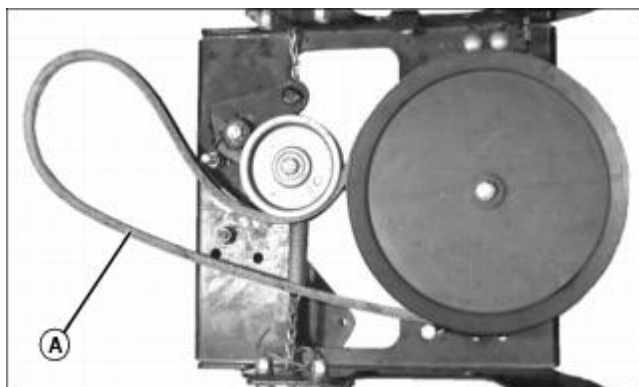
Install Upper V-Belt

 **CAUTION:** Avoid injury! The engine may accidentally start while servicing machine. Remove key and disconnect any spark plug wires before servicing.

IMPORTANT: Avoid damage! Route upper V-belt inside idler. Routing belt incorrectly can cause belt damage.

1. Disengage PTO.

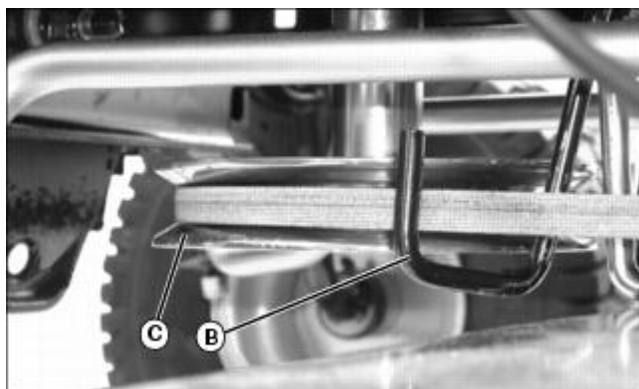
- Mechanical PTO tractors: Pull back on PTO lever.
- Electric PTO tractors: Push down on PTO switch.



MX10256

Picture Note: Top view (idler assembly removed for clarity).

2. Route upper V-belt (A) around pulley and tensioner as shown.

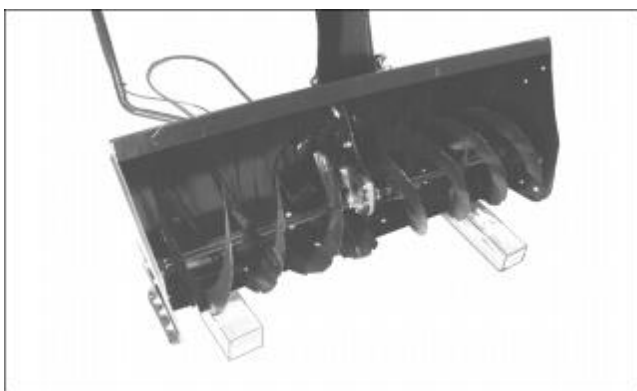


MX10269

3. Route upper V-belt through belt guides (B) and around tractor pulley (C) as shown.

Mount Snowblower to Machine

NOTE: To aid in installation, the snowblower should be blocked approximately 82 mm (3 1/4 in.) off the ground.

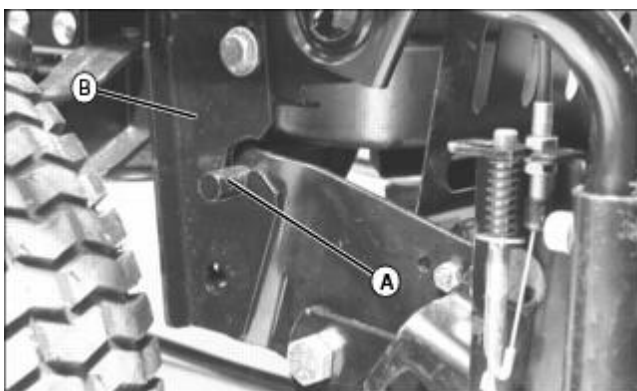


MX10260a

1. Block up each end of snowblower with two pieces of wood as shown.
2. Move lift handle forward to lowered position.
3. Unlock park brake.
4. Put transmission in N (neutral).

NOTE: Tractor and snowblower should be closely aligned; otherwise, the snowblower frame can bind between the mounting brackets and muffler shield.

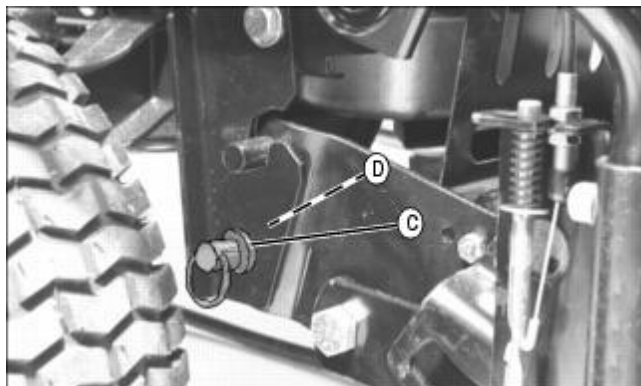
5. Align front of tractor with snowblower frame.
6. Automatic models only: Pull out free-wheeling lever at rear of tractor.
7. Move the snowblower lift handle forward to lowered position. Lift up on handle to tilt the snowblower frame upward. Have a helper slowly push the tractor forward toward the snowblower, or use your left foot on the front tire to roll the tractor forward.



MX10261

8. Guide the snowblower frame between the tractor mounting brackets and

muffler heat shield. The mounting pins (A) of the snowblower frame should slide into the slots in the mounting brackets (B). It may be necessary to pull back on the lift handle to assist the pins in seating into slots if they bind.



MX10262

9. Install the clevis pin on the left side of the machine:

- Push down on the chute rotation support tube, this will pivot the snowblower forward to allow the holes in the snowblower and mounting bracket to align.
- Install the 5/8X1-1/4 in. clevis pin (C) and secure with 1/8 in. spring locking pin (D).

10. Install the clevis pin on the right side of the machine:

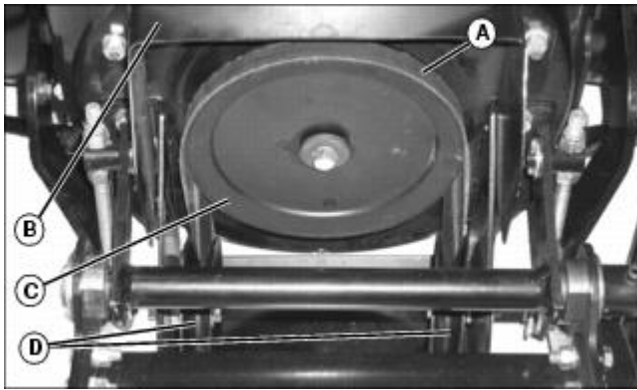
- Move the snowblower lift handle to the raised position. Push down on the snowblower lift handle to pivot the right side of the machine forward to align the lower pin holes.
- Install the 5/8X1-1/4 in. clevis pin (C) and secure with 1/8 in. spring locking pin (D).

IMPORTANT: Avoid damage! The transmission might be damaged if the free-wheeling lever is not pushed back in to operating position before attempting to start the engine.

- Do not start or operate the machine with the free-wheeling lever pulled out.
- Start or operate only with the lever pushed in.

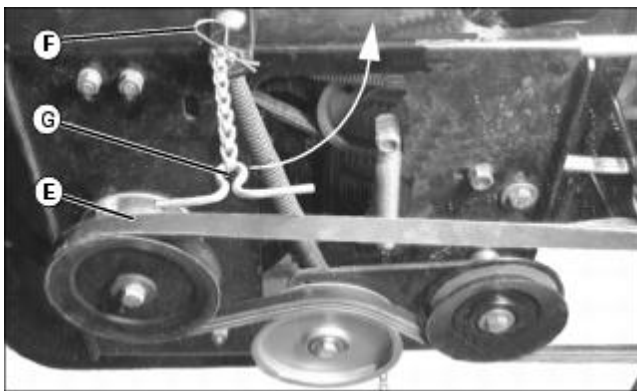
11. Automatic models only: Push in free-wheeling lever at rear of tractor.

Install Lower V-Belt



MX10263

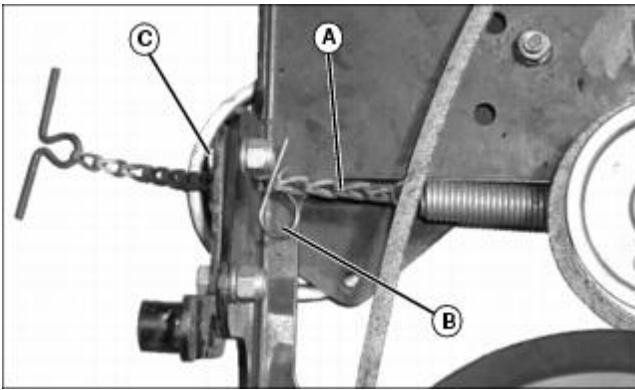
1. Check routing of lower V-belt (A) in snowblower assembly (B). Ensure that V-belt passes over top of auger pulley (C) and then twists 1/4 turn to pass under each side idler pulley (D).
2. Lower snowblower to ground.



MX10264

3. Route lower V-belt (E) around pulley and tensioners as shown.
4. Pull chain until spring protrudes from hole and secure spring with 1/8 in. spring locking pin (F).
5. Hang pull chain handle (G) on J-pin.

Set Tension In Upper V-Belt



MX10255

Electric PTO machine only: Pull chain (A) until spring locking pin (B) hits inside of clutch idler assembly frame. Install 1/8 in. spring locking pin (C) on outside of clutch idler assembly frame.

Lubricate Snow Blower

Lubricate idler, snow blower assembly, auger and discharge chute as described in Service section.

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Removing and Storing Attachment

Removing Snow Blower



CAUTION: Avoid injury! Attachment is heavy.

Keep hands and feet out from under attachment when removing or installing.

NOTE: Store all spring locking pins and spare shear bolts with snow blower assembly for storage.

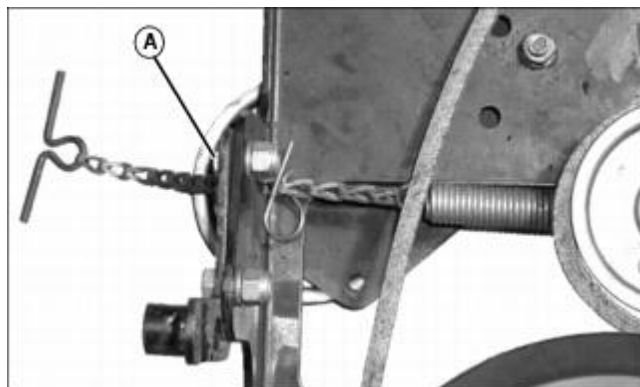
1. Park machine safely. (See Parking Safely in Safety Section).
2. Lower snowblower onto wooden blocks at each end.



CAUTION: Avoid injury! The engine may accidentally start while servicing machine. Remove key and disconnect any spark plug wires before servicing.

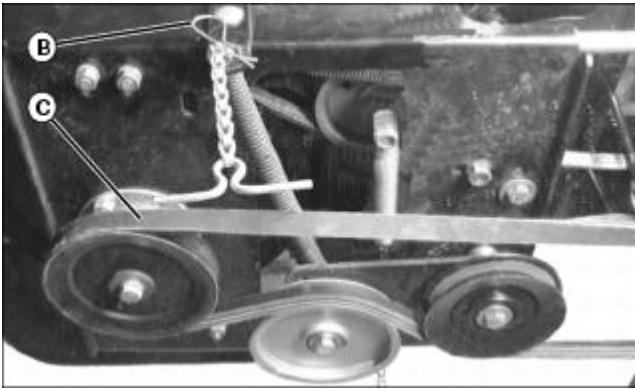
3. Disengage PTO.

- Mechanical PTO tractors: Pull back on PTO lever.
- Electric PTO tractors: Push down on PTO switch.



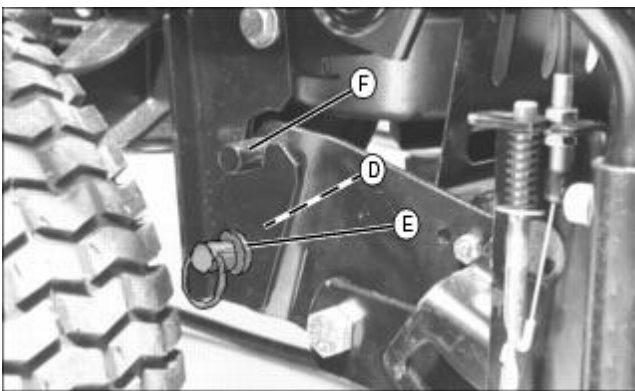
MX10255

4. Electric PTO tractor only: Remove spring locking pin (A) on outside of clutch idler assembly frame to release belt tension.



MX10264

5. Remove spring locking pin (B) to release belt tension. Remove lower V-belt (C).



MX10262

6. Remove two spring locking pins (D). Push lift handle upward and remove two clevis pins (E).

7. Push downward on the lift lever and remove the lower right clevis pin

8. Push downward on the chute rotation support tube and remove the lower left clevis pin.

9. Move lift lever to the lowered position. Lift up on handle and tilt the snowblower frame upward.

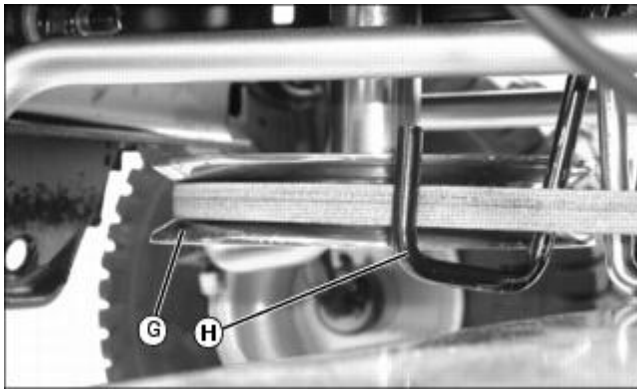
10. Unlock park brake.

11. Put transmission in N (neutral).

12. Automatic models only: Pull out free-wheeling lever at rear of tractor.

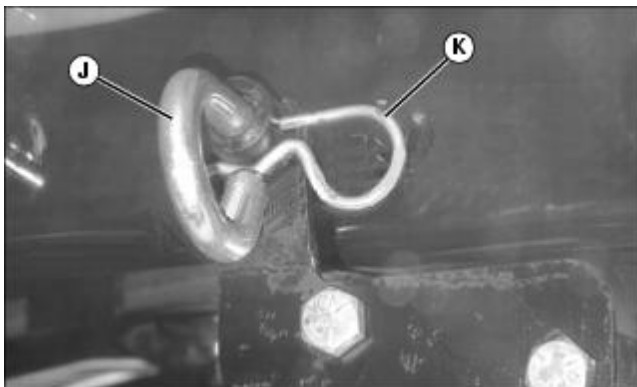
13. Roll the machine away from the snowblower. Mounting pins (F) should slide out of the mounting brackets.

14. Lower the rear of snowblower to the floor.



MX10269

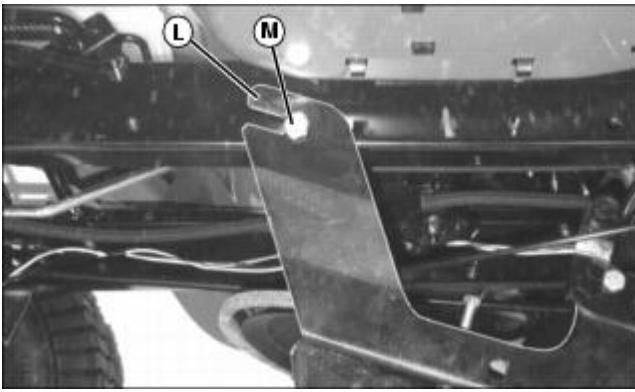
15. Remove upper V-belt from tractor pulley (G) and belt guides (H).



MX10253

Picture Note: Left Side View

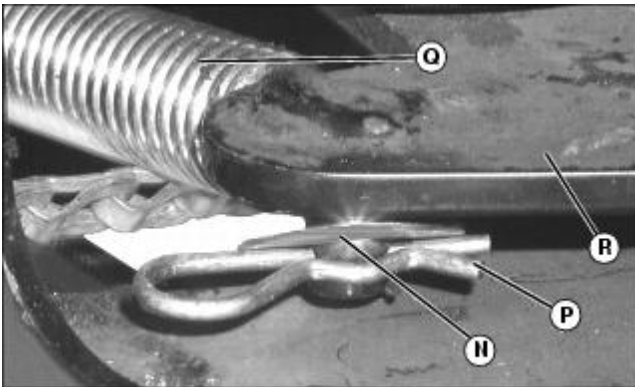
16. Remove two spring locking pins (K), remove two J-pins (J) and lower front of idler assembly to ground.+



MX10252

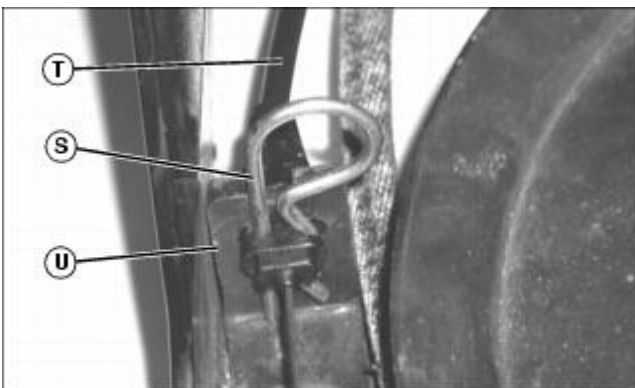
Picture Note: Right Side View

17. Slide rear slots of clutch idler assembly (L) off from shoulder bolts (M) protruding from tractor frame.



MX10251

18. Mechanical PTO tractor only: Remove washer (N) and spring locking pin (P). Unhook clutch cable spring (Q) from idler bracket (R).



MX10249

19. Mechanical PTO tractor only: Remove spring locking pin (S). Push clutch cable (T) through clutch cable bracket (U).



c CAUTION: Avoid injury! When snow blower is removed, remove weights and chains that were added to machine.

20. Remove weights that were installed when preparing tractor.

IMPORTANT: Avoid damage! The transmission might be damaged if the free-wheeling lever is not pushed back in to operating position before attempting to start the engine.

- Do not start or operate the machine with the free-wheeling lever pulled out.
- Start or operate only with the lever pushed in.

21. Automatic models only: Push in free-wheeling lever at rear of tractor.

Storing Safety



c 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.
- 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.

Storing Attachment

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

1. Remove attachment from machine.
2. Clean attachment and driveline, if equipped.
3. Remove any shields if needed to clean out all debris.
4. Repair or replace worn, bent, or damaged parts. Tighten loose hardware.
5. Apply paint to painted surfaces where needed to prevent rust.

6. Apply thin coat of grease to blades to prevent rust.
7. Lubricate any pivot points with engine oil to prevent rust.
8. Lubricate any grease points.

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

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

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Operating

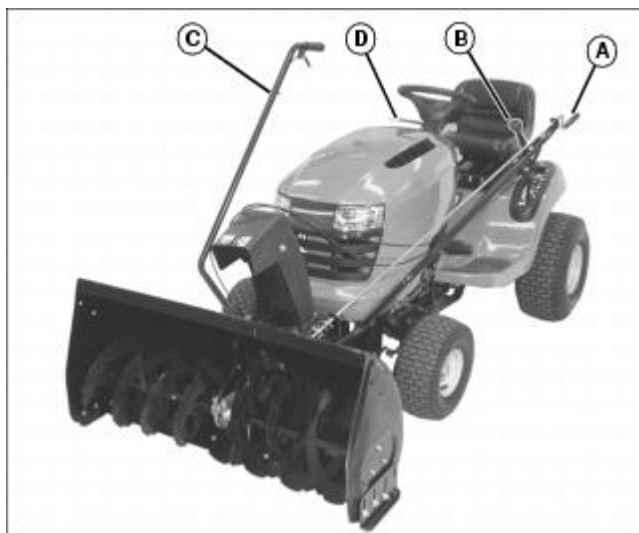
Before Operating Snow Blower

- Learn all controls and how they work. Read your Machine's Operator Manual, if necessary.
- Stop engine.
- Lock park brake.
- Remove key.
- Make operating adjustments as necessary.
- Tighten loose hardware.

Daily Operating Checklist

- o Check snow blower for loose fasteners.
- o Lubricate discharge chute.

Controls and Adjustment Levers



MX10270

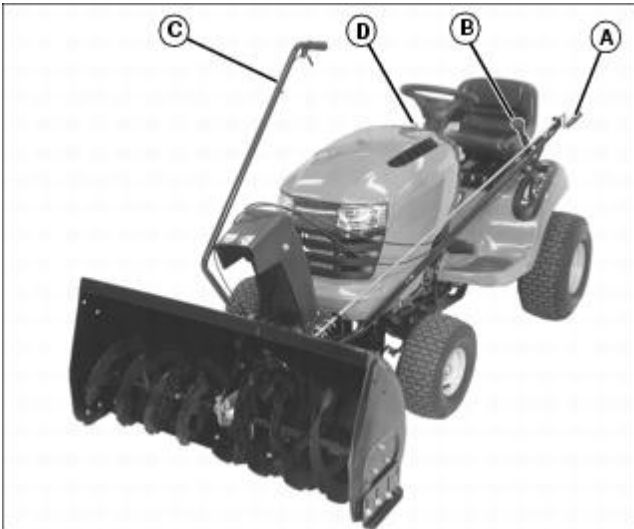
Picture Note: Mechanical PTO Tractor

A - Chute Control Rod

B - Snow Deflector Control Handle

C - Snowblower Lift Handle

D - Mechanical PTO Lever



MX10271

Picture Note: Electric PTO Tractor

A - Chute Control Rod

B - Snow Deflector Control Handle

C - Snowblower Lift Handle

D - Electric PTO Switch

Snowblowing Tips

Install tire chains and rear weights on machine.

Adjust skid shoes before clearing snow.

Operate snow blower at full throttle.

Operate snow blower at safe, slow travel speed.

Slow down:

- On slopes.
- When making turns.
- When throwing snow close to buildings or trees.

Always transport with snow blower in raised position and PTO disengaged.

Throw snow downwind, if possible.

If you hit an object:

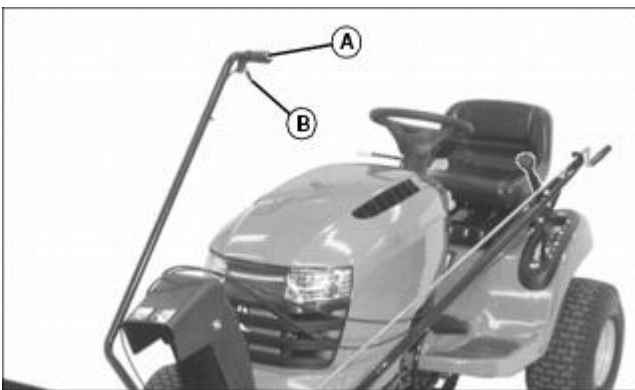
- Stop snow blower immediately.
- Fix damage before using snow blower again.

Before cleaning or unplugging snow blower:

- Disengage PTO.
- Stop engine.
- Remove key.
- Lock park brake.
- Wait for all moving parts to stop.
- Lower snow blower to ground.
- Remove spark plug wires.

Clean snow blower after use.

Raising and Lowering Snow Blower



MX10270

To raise snowblower: Pull lift handle (A) all the way back.

To lower snowblower: Squeeze lift handle trigger (B) and push lift handle all the way forward.

Adjusting Chute



CAUTION: Avoid injury! Never direct discharge at bystanders or allow anyone in front of the unit. Change the discharge direction to avoid bystanders, buildings, and automobiles.

The snowblower has a discharge radius of 180 degrees.



MX10270

Turn chute control rod (A) to right to direct snow to right side of tractor and to left for opposite effect.

Adjusting Spout



MX10270

The distance snow will be discharged can be adjusted by moving snow deflector (A).

To increase distance snow is discharged, pull back on snow deflector control handle (B).

Adjusting Lift Height



CAUTION: Avoid injury! Rotating auger is dangerous.

Before making adjustment:

- Park machine safely and lock park brake before getting off of seat.
- Turn snow blower off.
- Stop engine.
- Wait for all moving parts to stop.
- Disconnect spark plug wire(s) to prevent engine from starting accidentally.

1. Park machine safely.
2. Lower snow blower to ground.



MX10405

3. Loosen jam nut (A) and turn lift height adjustment nut (B):
 - Right to increase lift height
 - Left to decrease lift height
4. Repeat procedure for left side.

IMPORTANT: Avoid damage! Do not raise snow blower until left and right sides are adjusted equally. Raising snow blower before both sides are

adjusted equally may cause snow blower frame to bend.

5. Raise snow blower and check lift height.

6. Tighten jam nut.

Adjusting Skid Shoes



CAUTION: Avoid injury! Rotating auger is dangerous.

Before making adjustment:

- Park machine safely and lock park brake before getting off of seat.
- Turn snow blower off.
- Stop engine.
- Wait for all moving parts to stop.
- Disconnect spark plug wire(s) to prevent engine from starting accidentally.

IMPORTANT: Avoid damage! Both scraper and skid shoes are subject to wear and are designed for easy replacement. Replace before wear is excessive to prevent damage to auger housing or snow auger.

The skid shoe mounted on each side of auger housing adjusts distance scraper blade is raised above ground.

- When removing snow from an uneven surface or a gravel driveway, raise scraper as high above surface as possible. This will help prevent possible damage to snow auger and help prevent stones from being thrown with snow.
- On blacktop or concrete, keep scraper as close to scraping surface as possible.

NOTE: Make sure both skid shoes are adjusted to keep scraper even with scraping surface.

Adjusting Skid Shoes for Use on Gravel Driveways or Uneven Surfaces

1. Raise snow blower.
2. Place wood blocks under both ends of scraper.

3. Lower snow blower scraper onto blocks.



MX10279

4. Loosen six nuts (A) on inside of auger housing which secure skid shoes.

5. Allow skid shoes to drop to ground level.

6. Tighten six nuts securing skid shoes.

7. Lower snow blower to ground.

Adjusting Skid Shoes for Use on Concrete or Even Surfaces

1. Raise snow blower.

2. Loosen six nuts (A) on inside of auger housing which secure skid shoes.

3. Lower snow blower to ground.

4. Tighten six nuts to secure skid shoes.

Unplugging Discharge Chute



c CAUTION: Avoid injury! Rotating auger is dangerous.

Before making adjustment:

- Park machine safely and lock park brake before getting off of seat.
- Turn snow blower off.
- Stop engine.
- Wait for all moving parts to stop.

· Disconnect spark plug wire(s) to prevent engine from starting accidentally.

If snowblower becomes plugged with snow or jammed due to hitting an obstruction, proceed as follows:

1. Stop tractor.
2. Disengage PTO.



MX10400

Picture Note: Mechanical PTO Tractor

- Mechanical PTO tractor: Pull back on PTO lever (A).



MX10401

Picture Note: Electric PTO Tractor

- Electric PTO tractor: Push down on PTO switch (D).

3. Stop engine.
4. Lock park brake (B).

5. Remove key (C).
6. Wait for auger to stop.
7. Lower snowblower to ground.
8. Remove spark plug wires.
9. Use a wooden stick to push snow back down into auger housing.
10. Replace spark plug wires.
11. Resume snow removal.

Operating Snow Blower



c CAUTION: Avoid injury! Thrown objects can be dangerous.
Before operating the attachment:

- Clear area of bystanders, especially children.
- Pick up objects which may be thrown by the attachment.

1. Adjust discharge chute.
2. Start engine.
3. Move throttle lever to fast position.
4. Engage PTO.
 - Mechanical PTO machine: Push forward on PTO lever.
 - Electric PTO machine: Pull up on PTO switch.
5. Lower snow blower to ground.



c CAUTION: Avoid injury! Do not operate machine at high speeds when operating the snow blower.

IMPORTANT: Avoid damage! For best snow blower and engine performance, operate engine at full throttle when blowing snow.

6. Select lowest machine ground speed at machine full throttle and engage machine ground drive.

Stopping Machine and Snow Blower

1. Depress clutch/brake pedal fully.
2. Put transmission in N (neutral).
3. Disengage PTO.
 - Mechanical PTO machine: Pull back on PTO lever (A).
 - Electric PTO machine: Push down on PTO switch (D).
4. Lower snow blower to ground.
5. Stop engine.
6. Lock park brake (B).
7. Remove key (C).

Transporting

IMPORTANT: Avoid damage! Always lower snow blower to trailer deck when transporting.

1. Drive machine and snow blower onto heavy-duty trailer.
2. Lower snow blower to trailer deck.
3. Stop engine.
4. Lock park brake.
5. Fasten machine and snow blower to deck with straps, chains, or cables.
6. Trailer must have lights and signs required by law.

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Service

Service Intervals

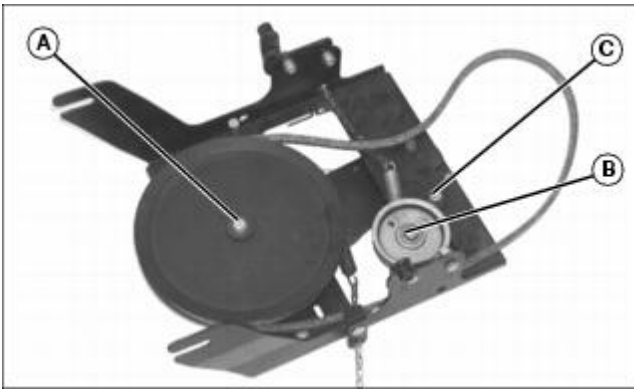
Before Each Use	Check unit for loose fasteners.
	Lubricate discharge chute.
Every 10 Hours or Each Year	Lubricate auger bearings.
	Lubricate discharge chute.
	<40"
	Lubricate lift bar.
	Check and adjust lift height.
	Check skid shoes and scraper blade and replace if necessary.
	Check V-belts and replace if worn.
As Required	<
	Check snow auger and straighten if necessary.
	Check discharge chute drive tube.
	Check skid shoes.

Lubricants

The following lubricants are preferred:

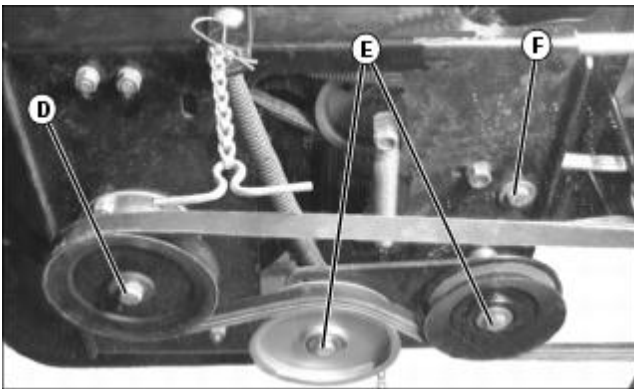
- Light Machine Oil (SAE30 API-S6)
- General Purpose Grease
- General Purpose Spray Lubricant

Lubricate Idler Assembly



MX10248

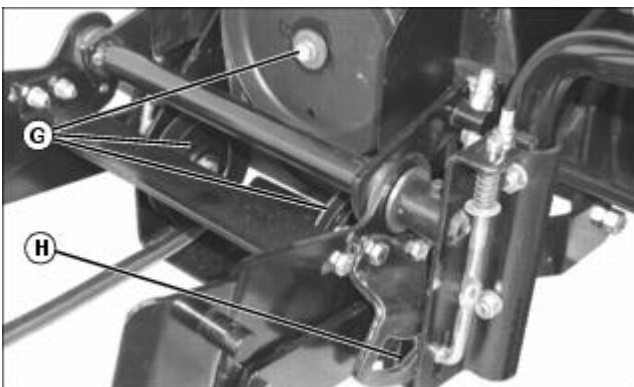
1. Lubricate pulley shaft (A) and idler shaft (B) with light machine oil.
2. Lubricate pivot point (C) with light machine oil.



MX10264

3. Lubricate pulley shaft (D) and idler shafts (E) with light machine oil.
4. Lubricate pivot point (F) with light machine oil.

Lubricate Snow Blower Assembly



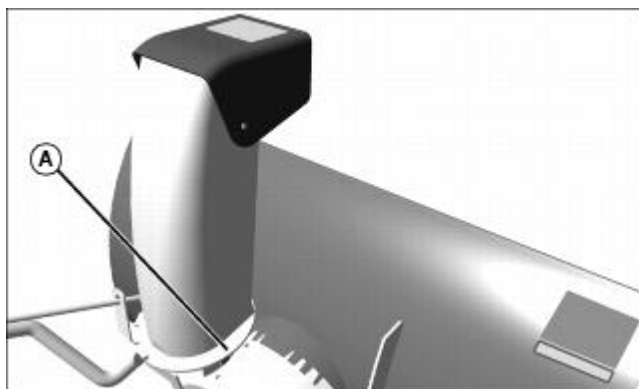
MX10406

1. Lubricate pulley shafts (G) with light machine oil.
2. Lubricate lift height adjustment slot (H) with light machine oil.

Lubricate Auger

NOTE: No lubrication is required for auger bearings or gearbox.

Lubricate Discharge Chute



MX10212

Lubricate discharge chute (A) with general purpose spray lubricant.

Replacing Upper V-Belt

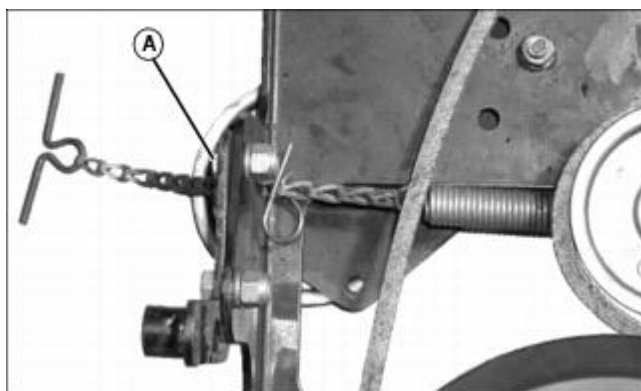


CAUTION: Avoid injury! The engine may accidentally start while servicing machine. Remove key and disconnect any spark plug wires before servicing.

IMPORTANT: Avoid damage! Route upper V-belt inside idler. Routing belt incorrectly can cause belt damage.

NOTE: It is not necessary to remove snow blower for this procedure. Snow blower was removed for illustration only.

1. Disengage PTO.

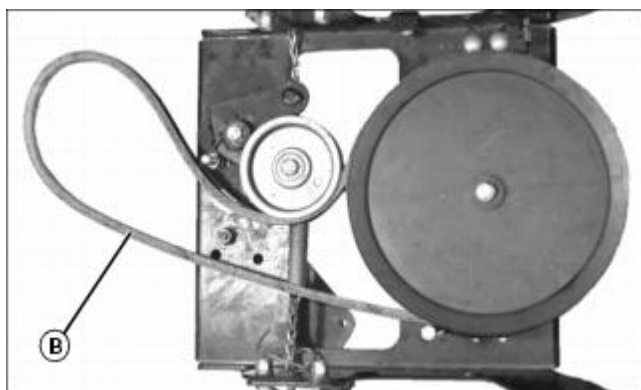


MX10255

2. Electric PTO tractor only: Remove spring locking pin (A) on outside of clutch idler assembly frame to release belt tension.

3. Remove damaged V-belt.

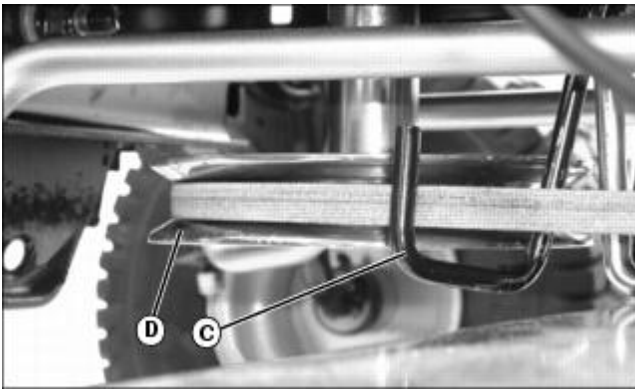
IMPORTANT: Avoid damage! Route upper V-belt inside clutch idler pulley and belt guide. Routing belt incorrectly can cause belt damage.



MX10256

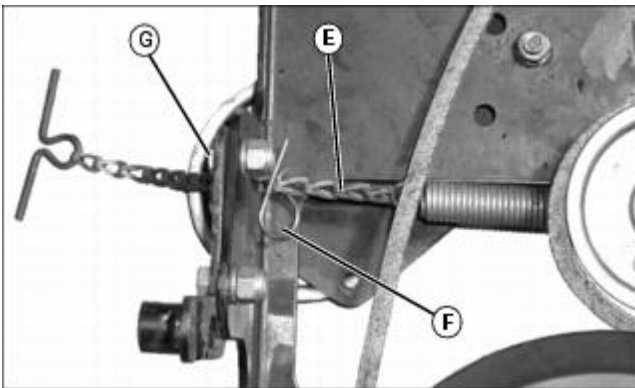
Picture Note: Top view (idler assembly removed for clarity).

4. Install new V-belt (B) on upper pulley and idler as shown.



MX10269

5. Route upper V-belt through belt guides (C) and around tractor pulley (D) as shown.

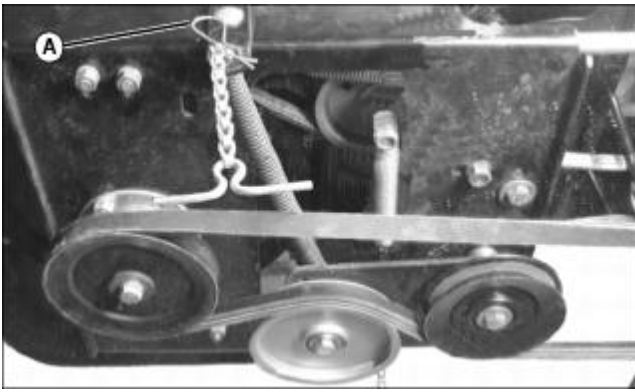


MX10255

6. Electric PTO tractor only: Pull chain (E) until spring locking pin (F) hits inside of clutch idler assembly frame. Install spring locking pin (G) on outside of clutch idler assembly frame.

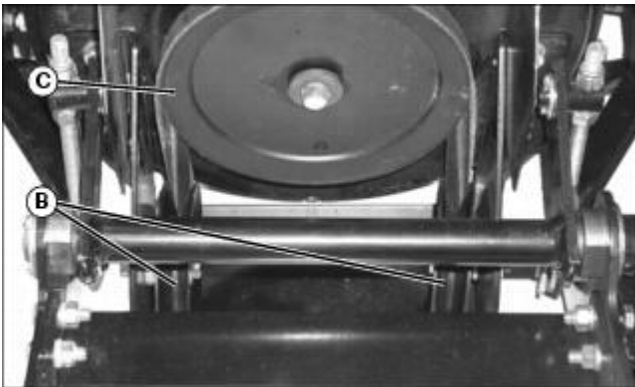
Replacing Lower V-Belt

NOTE: It is not necessary to remove snow blower for this procedure. Snow blower was removed for illustration only.



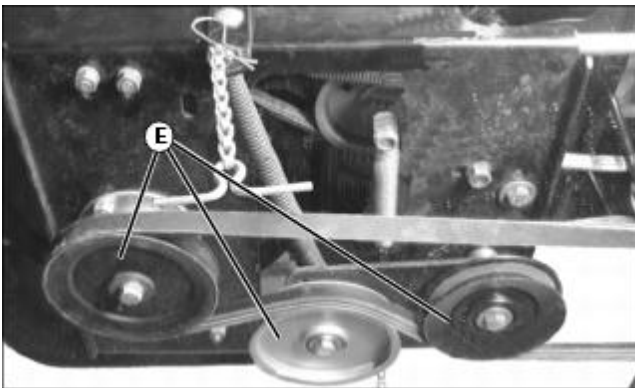
MX10264

1. Remove spring locking pin (A) from tensioner.
2. Roll lower V-belt off of jack shaft pulley, idlers and mounting bracket pulley and remove it from snow blower.



MX10263

3. Install new V-belt under two idler pulleys (B) and roll it around jack shaft pulley (C) on snow blower assembly.



MX10264

4. Install new lower V-belt around pulley and idlers (E) as shown.
5. Set lower V-belt tension.

Rotating Skid Shoes



CAUTION: Avoid injury! Rotating auger is dangerous.

Before making adjustment:

- Park machine safely and lock park brake before getting off of seat.
- Turn snow blower off.
- Stop engine.
- Wait for all moving parts to stop.
- Disconnect spark plug wire(s) to prevent engine from starting accidentally.

IMPORTANT: Avoid damage! Skid shoes are subject to wear and are designed for easy replacement. Replace before wear is excessive to prevent damage to auger housing or snow auger.

Skid shoes often wear unevenly. Right and left skid shoes can be rotated to prolong service life.

1. Raise snow blower.
2. Place wood blocks under both ends of scraper.
3. Lower snow blower scraper onto blocks.



MX10279

4. Remove six lock nuts (A) which secure skid shoes.
5. Rotate skid shoes to opposite sides of auger housing. Keep flat side of skid shoe against auger housing.
6. Secure skid shoes to auger housing using original lock nuts.
7. Adjust skid shoes (see Adjusting Skid Shoes in Operating section).

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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.

If	Check
Auger Housing Vibration	Failed bearing (See your Authorized Service Center).
Lower V-Belt Fluttering	Lower V-belt loose.
Clogged Discharge Chute	Machine ground speed too fast. Machine engine speed too slow. Snow too deep.
Discharge Chute is Difficult to Rotate or Will Not Hold Position	Discharge chute keeper nuts too tight. Discharge chute flange not greased.
Snow Blower Does Not Operate	Upper or lower V-belt not tensioned properly. Upper or lower V-belt not in pulley grooves. Worn or broken V-belt. Broken shear bolt on auger tube.
	Worn or broken V-belt. Upper V-belt outside of belt retainers.

Burned Rubber Smell	V-belts not in pulley grooves. Object caught in auger or discharge fan.
Lift Height Too Low or Too High	Adjust eye bolts on snow blower assembly.
Snow Blower Kills Machine Engine	Object caught in auger or discharge fan. Very hard or heavy snow. Very wet snow.

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Getting Quality Service

Service Literature

If you would like a copy of the Parts Catalog or Technical Manual for this machine call:

- **U.S. & Canada:** 1-800-522-7448.
- **All Other Regions:** Your John Deere dealer.

Parts

We recommend John Deere quality parts and lubricants, available at your John Deere dealer.

When you order parts, your John Deere dealer needs the serial number or product identification number (PIN) for your machine or attachment. These are the numbers that you recorded in the Product Identification section of this manual.

Order Service Parts Online

Visit <http://JDParts.deere.com> for your Internet connection to parts ordering and information.

Replacement Parts

ITEM	PART NUMBER
Upper V-Belt	M82538
Lower V-Belt	GXH47846
Skid Shoes	GXH24279
Scraper Blade	GXH24773
Shear Bolt	GXH47890
Shear Bolt Nut	T16464

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

John Deere Quality Continues with Quality Service

John Deere provides a process to handle your questions or problems, should they arise, to ensure that product quality continues with your John Deere dealer's parts and service support.

Follow the steps below to get answers to any questions you may have about your product.

1. Refer to your attachment and machine operator manuals.
 2. Contact your John Deere dealer with unanswered questions.
 3. In North America or Canada, call the John Deere Customer Contact Center.
- Call 1-800-537-8233 and provide product serial number and model number.

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