

JOHN DEERE
WORLDWIDE COMMERCIAL & CONSUMER
EQUIPMENT DIVISION

Snowthrower
42-Inch

OMM149833 K6

OPERATOR'S MANUAL



JOHN DEERE

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Previous Editions

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North American Version

Litho in U.S.A.

INTRODUCTION

Introduction

Using Your Operator's Manual

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

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

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

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

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

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

Product Identification

Product Compatibility

Snowthrower For LX /GT Series and GX255 Garden Tractors with foot lift deck system.

Record Identification Numbers

42-Inch Serial No. (010001-)

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:

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.

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.

WARNING and CAUTION



M144854

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.

DANGER



M144853

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

DANGER



M154693

ROTATING BLADE

- Shut off engine before unclogging discharge chute.

SAFETY

Safety

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

Safe Operation Practices for Ride On Snow Throwers

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

Training

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

Preparation

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

Operation

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

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

Parking Safely

1. Stop machine on a level surface, not on a slope.
2. Disengage 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.

Clearing a Clogged Discharge Chute

- Hand contact with the rotating impeller inside the discharge chute is the most common cause of injury associated with snowthrowers. Never use

ASSEMBLY

your hand to clean out the discharge chute.

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

Maintenance and Storage

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

Practice Safe Maintenance

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

Avoid Injury from Moving Parts

Before cleaning, repairing, or inspecting, make certain all moving parts have stopped. Disconnect the tractor spark plug wire or battery to prevent

accidental starting.

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

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

Before you dismount to unplug or adjust attachment:

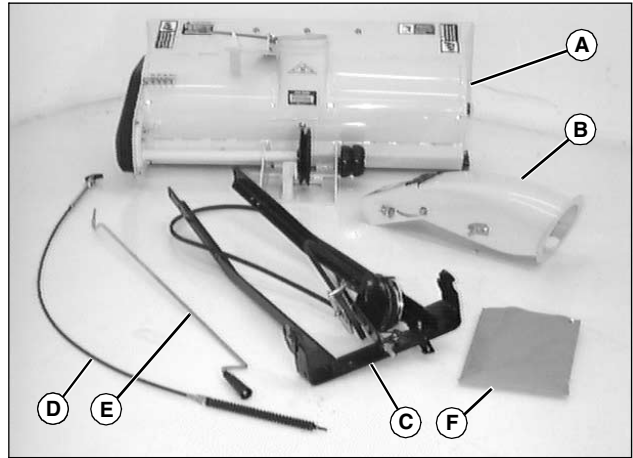
- Disengage PTO.
- Stop the engine.
- Lock the park brake.
- Remove the key.
- Wait for all moving parts to stop.
- Keep hands, feet and clothing away from attachment when engine is running.

Avoid Injury from Hitting Obstructions

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

Assembly

Identify Parts



M92981

Qty.	Description
1	Snowthrower Assembly (A)
1	Welded Discharge Chute (B)
1	Welded Frame with Idles and Belt (C)
1	Spout Control Cable
1	Chute Control Rod
1	Bag of Parts

ASSEMBLY

Bag of Parts (F) Contains:

Qty	Description	Size	Qty	Description	Size
			1	Sway Bar Rod	
6	Bolt	M5x20	1	Sway Bar Bracket	
1	Bolt	M8x25	2	Reflective Tape	
1	Bolt	M10x50	1	Hex Flange Nut	3/8
4	Hex Flange Bolt	M12x30	1	Hex Flange Screw	3/8x1.0
1	Hex Nut	#10	2	Rd Head Bolt	M8x30
6	Locknut	M5	1	Rod, Spout Control	
1	Locknut	M8	Front Lift Kit		
1	Locknut	M10	Qty.	Description	
4	Locknut	M12	1	Front Lift Shaft, Welded	
1	Small Drilled Pin		2	D-Shaped Bearing	
2	Medium Drilled Pin		1	Lift arm, Welded	
5	Small Quick-Release Pin		1	Clevis Pin	
2	Washer (Extra for Rear Mounts)	M13x37x3	1	Lift Bar	
3	Clip		1	Spring Locking Pin, Large	
1	Black U-Joint		1	Spring Locking Pin, Small	
1	Snap-In Bearing		1	Locking Ring	
1	Flat Idler Sheave with Bearing		3	Locknut, Flange, M10	
1	Belt Angle Bracket		1	Shoulder Bolt, M10	
1	Chute and Spout Control Bracket		2	Bolt, Flange, M10x30	
1	Cable Guide		1	Bracket, Pedal	

Attaching Parts Carton Contains:

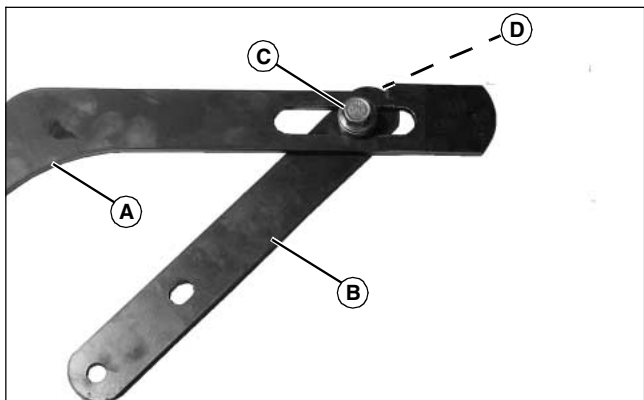
Qty	Description	Size
2	Cap Screw (Not used this application)	M12x65
2	Hex Head Bolt	3/8x2.0
2	Hex Head Bolt (Not Used This Application)	3/8x2.5
2	Hex Flange Bolt	M8x25
2	Hex Jam Nut	3/8
2	Clamp-On Nut	M8
2	Washer	0.406x1.0x0.134 in.
2	Drilled Pin	
2	Large Quick-Release Pin	
2	Small Quick-Release Pin	
2	Flanged Spacer (Not used this application)	
2	Yoke	

LX280AWS Only: Parts Obtained From a John Deere Dealer:

Qty	Description	Size
4	Hex Bolt	M12x30
4	Hex Flange Locknut	M12
2	Front Lift Bracket	
1	Bracket, Lift Extension	
1	Bolt, Flange	M10x30
1	Locknut, Flange	M10

ASSEMBLY

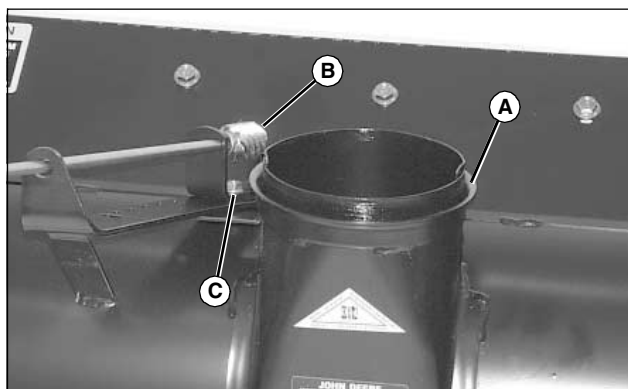
Assemble Lift Bar



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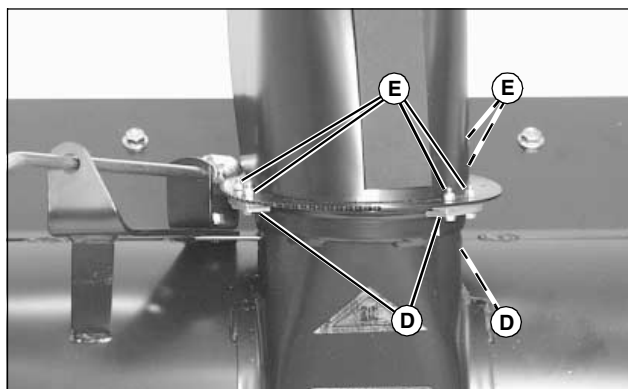
Attach lift bar (A) to foot lift bracket (B) with shoulder bolt (C). Be sure shoulder bolt rides in the slot of lift bar. Secure with M10 locknut (D).

Assemble Chute and Welded Frame



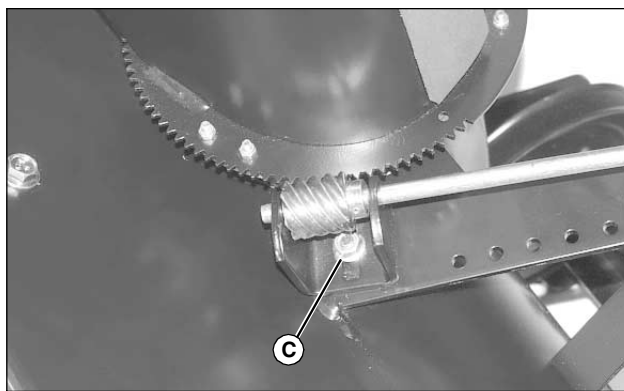
M63869

1. Apply grease on chute base (A) and worm gear (B).
2. Loosen nut (C) and move worm gear bracket away from chute base.



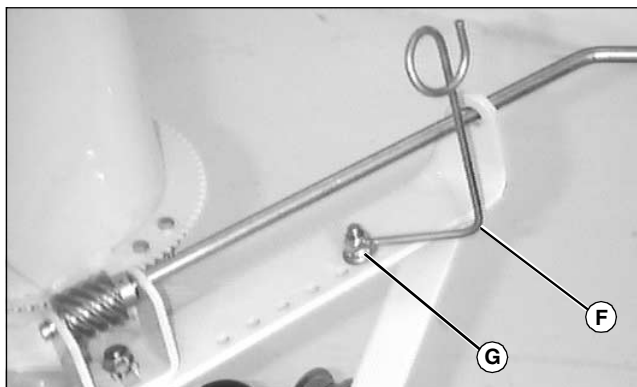
M63872

3. Fasten chute to base with three clips (D) and six M5x20 bolts and locknuts (E).



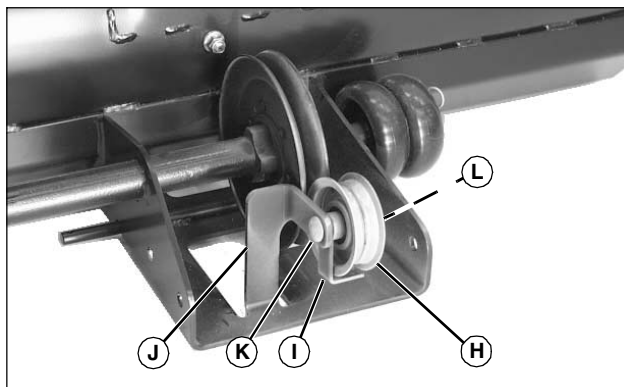
M63873

4. Move worm gear against teeth on discharge chute and tighten nut (C).



M92985

5. Install cable guide (F) on crank support using M8x25 bolt and lock nut (G).



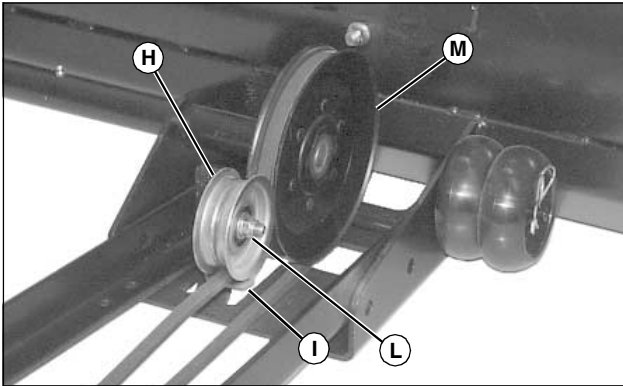
M63875

6. Install idler sheave (H) and belt guide (I) to welded support (J) using M10x50 bolt (K) and flange locknut (L). Do not tighten.

ASSEMBLY

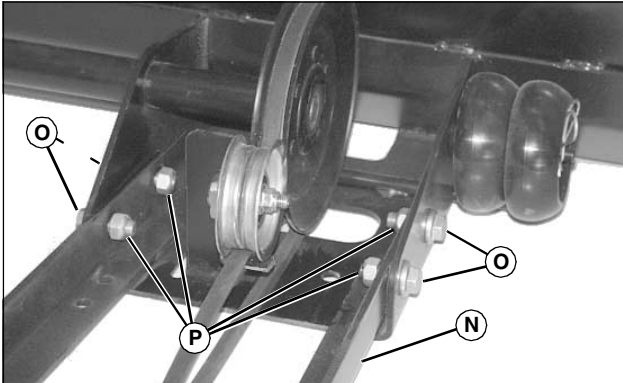
IMPORTANT: Avoid damage! Make sure belt does not touch belt guide.

After tightening nut, idler sheave must rotate freely when not in contact with belt.



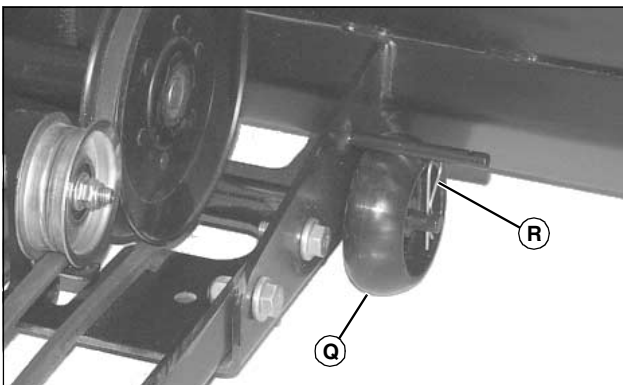
M63874

7. Slide welded frame to snowthrower and attach belt to drive sheave (M) and between idler sheave (H) and belt guide (I). Tighten nut (L).



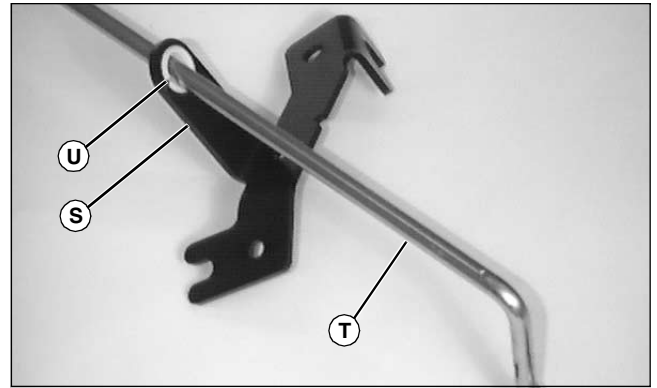
M63876

8. Lift up on welded frame (N) near sheaves and fasten to snowthrower frame with four M12x30 hex flange bolts (O) and M12 locknuts (P), (nuts on inside).



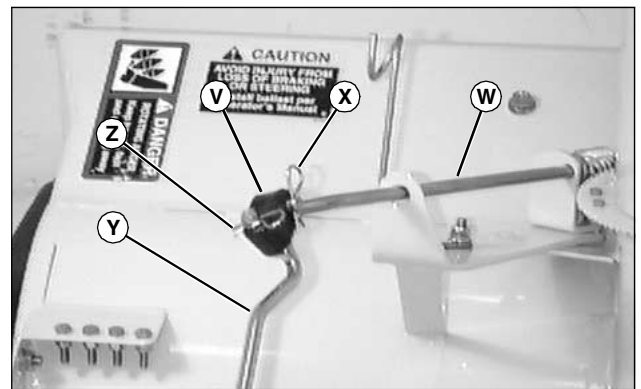
M63877

9. Remove wheels (Q) from storage position and install one on each side of snowthrower frame. Fasten with quick-release pin (R).



M92988

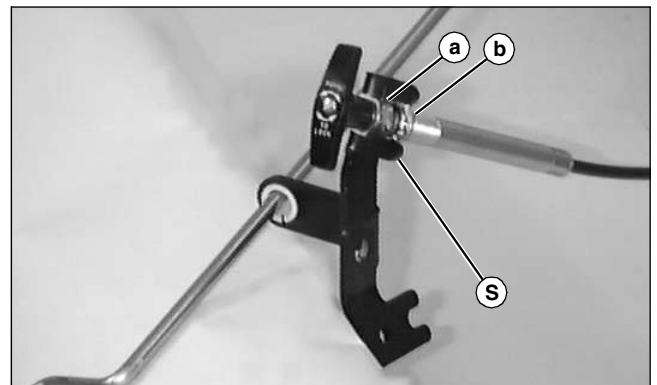
10. Slide chute and spout control bracket (S) onto chute control rod (T). With wider flange facing toward handle, slide snap-in bearing (U) over chute control rod and insert snap-in bearing into bracket.



M92996

11. Install black U-joint (V) to crank support rod (W) and fasten with small quick-release pin (X).

12. Insert end of chute control rod (Y) into U-joint and fasten with small quick-release pin (Z).



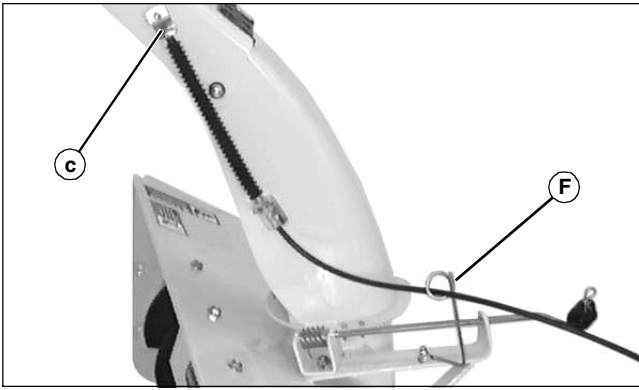
M63828

13. Thread top nut (a) on cable as far as possible.

NOTE: Handle must be in vertical position when tightened to allow proper operation.

14. Put handle end of cable into top slot of chute and spout control bracket (S) with lock washer and nut (b) against bottom side of bracket.

PREPARING VEHICLE



M92993

15. Route spout control cable end (c) through cable guide (F).

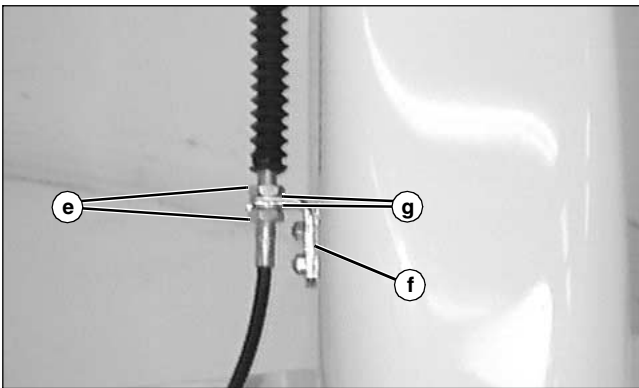
NOTE: Aim spout upward and pull cable end so that cable is fully extended before installing cable on spout bracket.



M92994

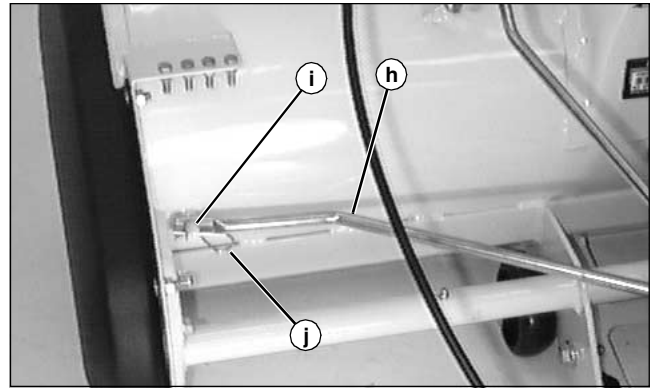
16. Install cable end (c) into upper spout bracket hole and fasten with #10 hex nut (d).

NOTE: Star washers (g) are on both sides of lower spout bracket (f).



M92995

17. Loosen nuts (e). Install cable assembly into lower spout bracket (f). Tighten nuts.

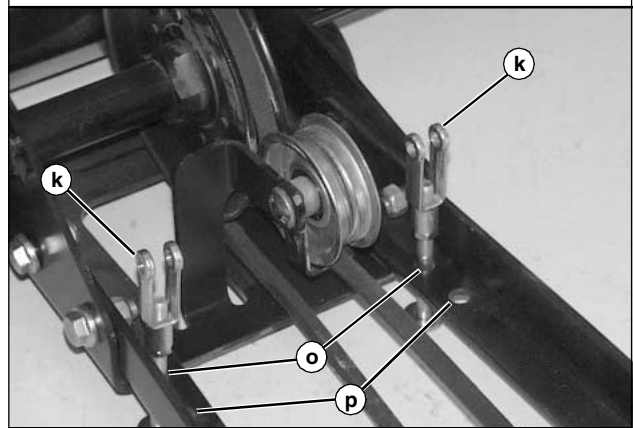
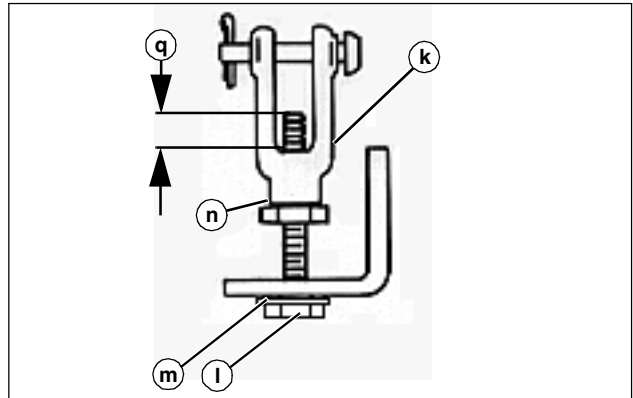


M63820

18. Install sway bar (h) on welded rod (i) and secure with large spring locking pin (j).

NOTE: LX280AWS only: Install yokes in first hole (o) in snowthrower frame.

All other Models: Install yokes in second hole (p) in snowthrower frame.



M41413C, M63881A

19. Fasten each yoke (k) to hole snowthrower frame with 3/8x2 in. bolt (l), 0.406x1x0.134 in. washer (m) and 3/8 in. jam nut (n).

20. Adjust jam nuts until bolt exposed inside of yoke, dimension (q), is approximately 5 - 7 mm (3/16 - 9/32 in.).

Preparing Vehicle

Preparing the Machine

NOTE: Read and complete the Assembly section of this operator's

PREPARING VEHICLE

manual if installing the attachment for the first time.

Before installing attachment, remove mower from machine. (See Removing and Storing Mower section in machine operator's manual.)

Machine Setup

- Check tire pressure of machine before operating machine.
- Front Implement Lift Kit (BM21337) and Attaching Parts Kit (BM21339) are required to mount attachment to machine.

Installing Upstop Bracket and Support Rod

1. Raise hood.



MX30623

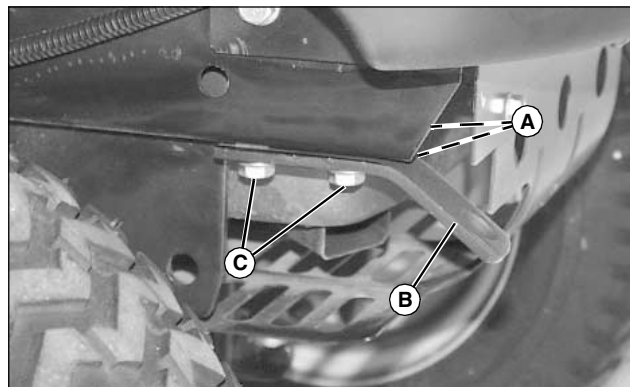
2. On left side, remove M8 nuts from M8 round head screws (D). Retain nuts. Remove and discard round head screws (D) from upstop bracket (E).



MX30624

3. Install two M8x30 round head screws (F) through frame and install upstop bracket (E), with lip on bracket towards center of machine.
4. Install support rod (G) as shown, and secure screws with M8 nuts, removed in step 2.
5. Close hood.

Installing Sway Bar Bracket

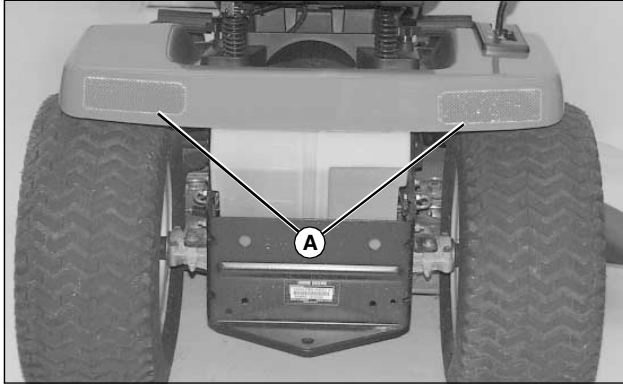


M63882a

1. Slide two M8 clamp-on nuts (A) over holes on right-front side of machine frame.
2. Align holes in sway bar bracket (B) with holes in bottom of frame and fasten with two M8x25 bolts (C).

INSTALLING ATTACHMENT

Installing Reflective Tape (LX Models)



M63893A

Apply reflective tape (A) to rear bumper of machines without reflectors.

Installing Attachment

Install Ballast



CAUTION: Avoid injury! Ballast is required when the attachment is installed.

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

Use only attachments and accessories recommended by the manufacturer.

Install the proper front ballast to help counter-balance the total weight of the snowthrower. Remove ballast when the snowthrower is removed. This will ensure proper operation of the machine when not removing snow.

NOTE: LX280-AWS Only: Mounting Kit (BM19797) is required to install Rear Weight Bracket and Mounting Kit (BM19211) is required to install Tractor Trunk.

• LX Series Required Ballast:

- Two 19 kg (42 lb) Rear Suitcase Weights, or
- Tractor Trunk with 45.4 kg (100 lb) of ballast

• GT Series and GX255 Required Ballast:

- One 19 kg (42 lb) Rear Suitcase Weight, or
- Tractor Trunk with 19 kg (42 lb) of ballast, or
- Rear Wheel Weights.

• GT Series and GX255 Recommended Ballast:

- Four 19 kg (42 lb) Rear Suitcase Weights, or
- Tractor Trunk with 68 kg (150 lb) of ballast, or
- Rear Wheel Weights.

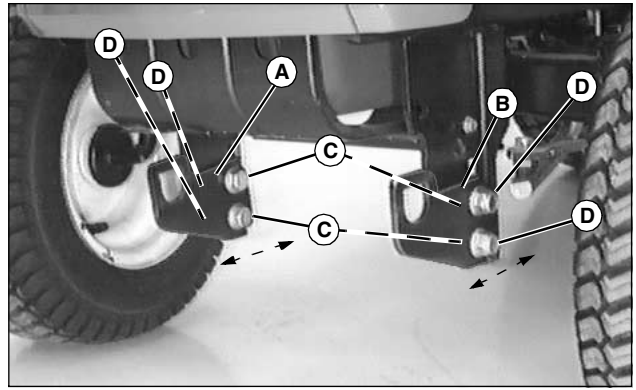
Installing Front Brackets (LX280AWS)

NOTE: LX280AWS does not have D-shaped holes in front brackets.

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

NOTE: LX280AWS: Obtain brackets and bolts from a John Deere dealer.

2. Install front brackets on front of machine frame.



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- LX280AWS: Right bracket (A) must be on inside of machine frame. Left bracket (B) must be on outside of machine frame.

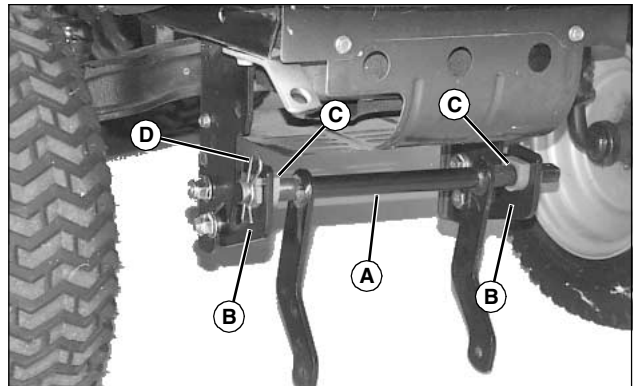
NOTE: LX280AWS: Bolts (C) are hex.

3. Fasten each bracket with two M12x30 hex head bolts (C) and two M12 hex flange locknuts (D).

- LX280AWS Only: Bolt heads must be on outside.

4. Move brackets so that bottom is level with machine frame. Tighten nuts.

Installing Manual Lift Assembly



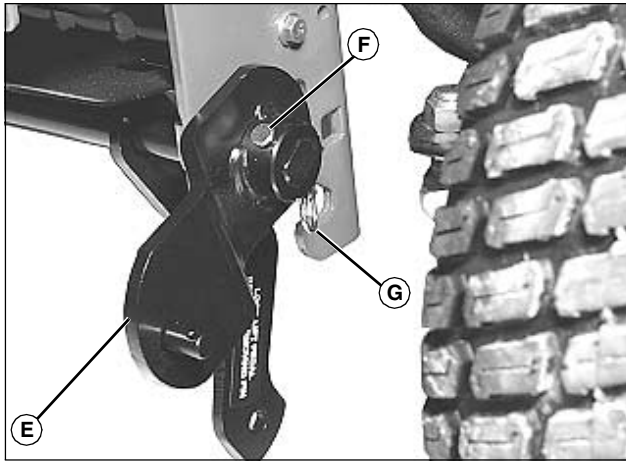
M63886

1. Slide left side of front lift shaft (A) and then right side into D-shaped holes of front brackets (B).

2. Slide D-shaped bearings (C) onto each front bracket.

3. Secure right side with medium quick-release pin (D).

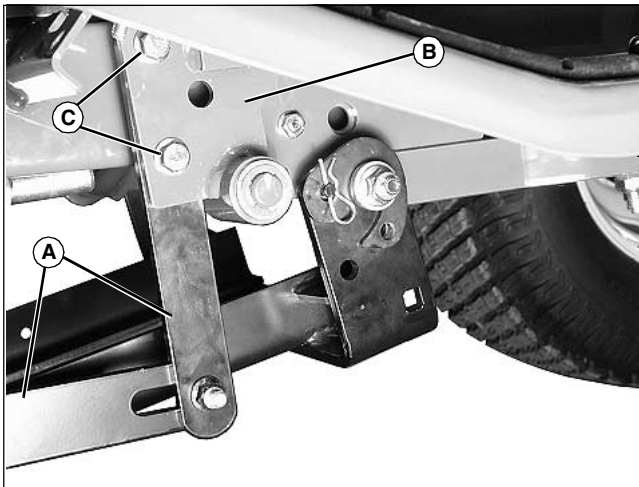
INSTALLING ATTACHMENT



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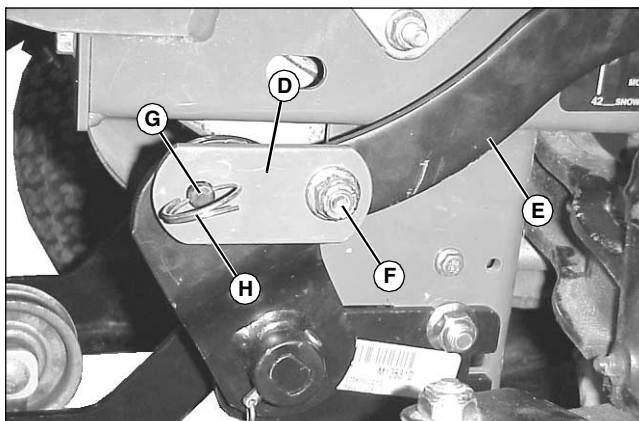
4. Install welded lift arm (E) onto left side of front lift shaft. Fasten with long drilled pin (F) and small quick-release pin (G).

Installing Lift Bar Assembly



MX30778

1. Attach lift bar assembly (A) to lift pedal (B) with two M10x30 flange bolts (C) and M10 flange locknuts.
2. Attach opposite end of lift bar assembly:



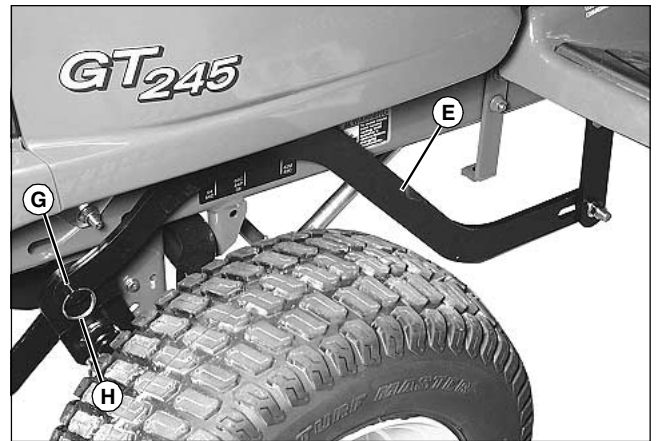
MX38553

Picture Note: LX280 with all-wheel steer shown.

- For LX280 machines with all-wheel steering, install lift extension

bracket (D) onto outer front end of lift bar (E) so it is level with machine frame, as shown. Secure with M10x30 flange bolt (F) and M10 flange locknut. Tighten locknut to 80 N•m (59 lb-ft).

Slide end of lift extension bracket (D) onto end of welded lift shaft arm pin (G). Secure with locking ring (H).



MX30777

- For all other machines, slide end of lift bar (E) onto end of welded lift shaft arm pin (G). Secure with locking ring (H).

Installing Snowthrower



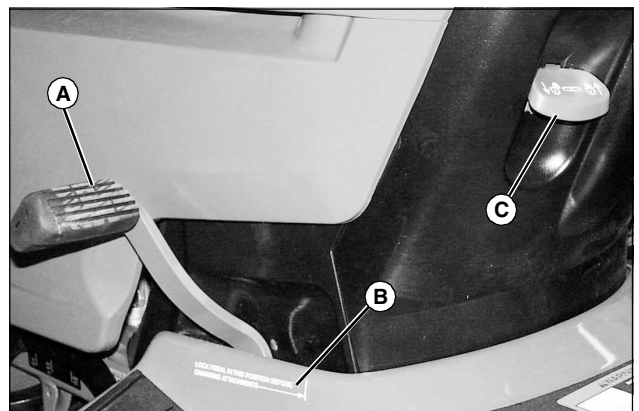
CAUTION: Avoid injury! Attachment is heavy and can crush.

Keep hands and arms from under attachment when in the raised position.

1. Align machine with snowthrower frame.
2. Stop engine and lock park brake.



CAUTION: Avoid injury! Lift pedal is spring-assisted and may have unexpected movement. Lock lift pedal when installing or removing attachment.



MX30484

3. Pull lift pedal (A) back by hand to lower lift assembly to the lower/down position (B). Pull lock lever (C) up to lock lift assembly in the lowered position.

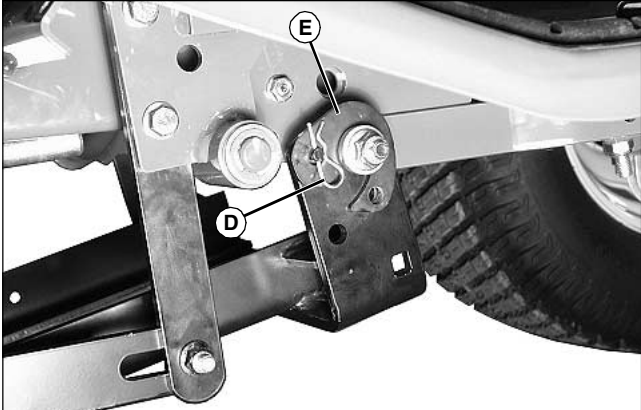
4. Install snowthrower latching mechanism.

- Remove drilled pin from C-shaped latch in snowthrower frame and let

INSTALLING ATTACHMENT

latch swing open.

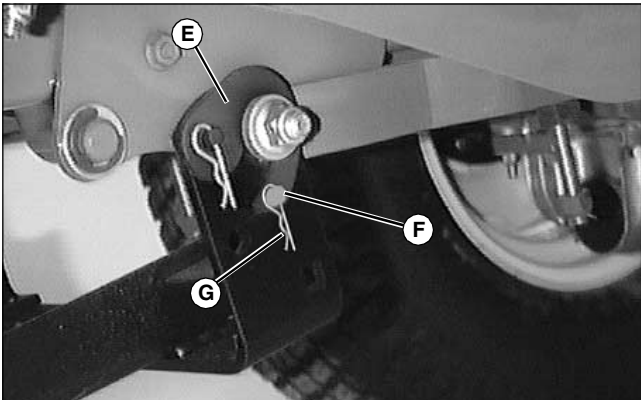
- Slide snowthrower frame under machine.



MX30778

- Remove small spring locking pin (D) and C-shaped latch (E), from left side only, to allow easy installation of blade frame.
- Attach both sides of rear blade frame to draft arm pivot bolts.
- Reinstall C-shaped latch (E) and small spring locking pin (D) to left side.

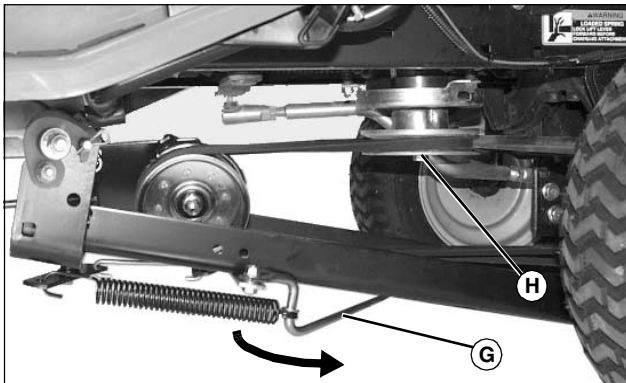
NOTE: Make sure latch pivots freely. Use two extra washers from Bag of Parts if C-shaped latch (E) does not pivot freely when frame is pulled to one side.



M92949a

- Secure C-shaped latch (E) with drilled pin (F) and small spring locking pin (G), on both sides.

5. Pivot belt tightener lever (G) to the rear to loosen belt.

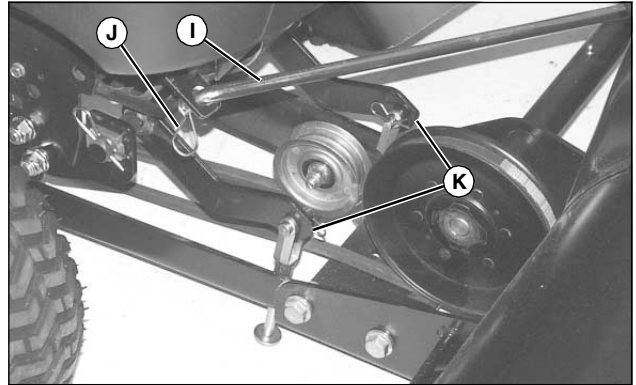


MX15696

6. Install belt on machine drive sheave (H).

7. Pivot tightening lever (G) forward and lock under snowthrower frame to tighten belt.

8. Check belt tension.

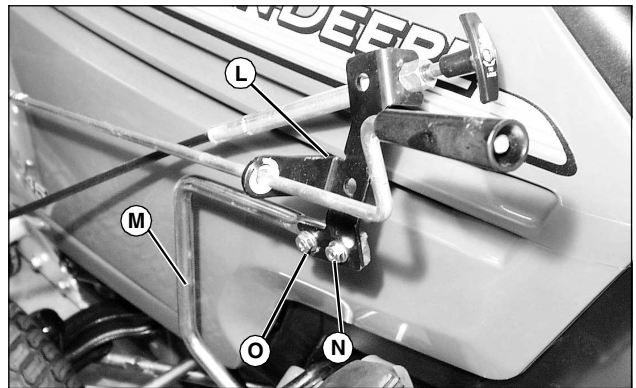


M63888

9. Fasten sway bar (I) to sway bar bracket with large quick-release pin (J).

NOTE: Install heads of slotted drilled pins (K) to the outside of lift arms.

10. Fasten two yokes (K) to front lift shaft with slotted drilled pin and small quick-release pin.



MX30707

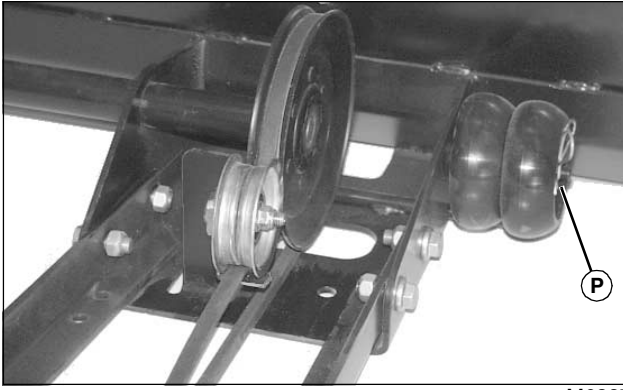
11. Attach 3/8x1 in. hex flange screw (O) and 3/8 in. flange nut in second hole of support rod (M) and hook end of bracket (L) over screw.

- Install M8x25 flange bolt (N) and M8 flanged locknut in first hole to secure bracket.

NOTE: If Snowthrower cannot be locked in up position, decrease snowthrower lift height.

12. Pull up slightly on foot pedal and push down on lock lever to unlock latch; push foot pedal all the way down (towards front of machine), and pull up on lock lever to lock snowthrower into raised position.

REMOVING AND STORING ATTACHMENT



M63876

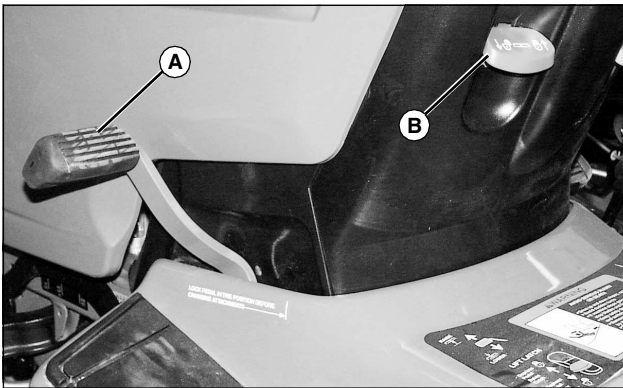
13. Move wheels to storage position and secure with original quick-release pins (P).

Removing and Storing Attachment

Removing Snowthrower

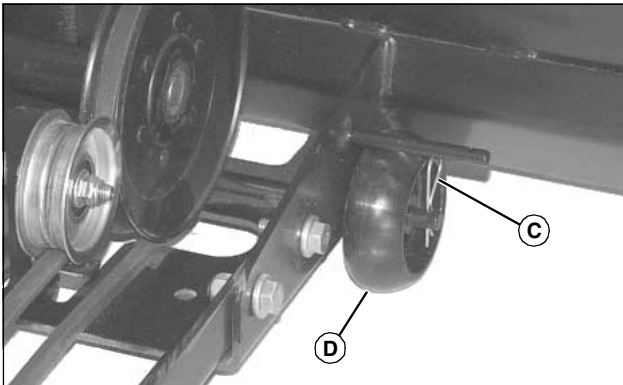
1. Park machine safely. (See Parking Safely in Safety section.)

CAUTION: Avoid injury! Lift pedal is spring-assisted and may have unexpected movement. Lock lift pedal when installing or removing attachment.



MX30484

2. Push foot pedal (A) all the way down (towards front of machine), and pull up on lock lever (B) to lock blade into raised position.



M63877

3. Remove wheels (D) from storage position and install one on each side

of snowthrower frame. Fasten with quick-release pin (C).

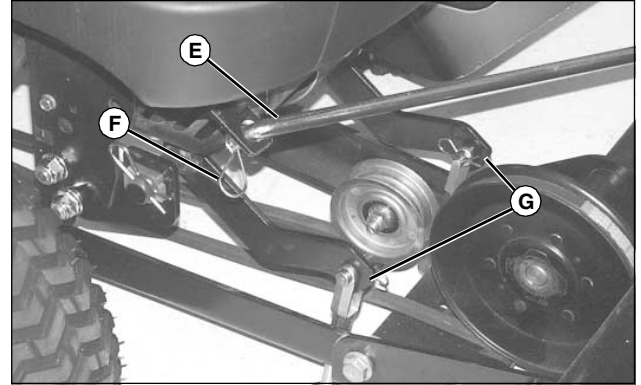


CAUTION: Avoid injury! Attachment is heavy and can crush.

Keep hands and arms from under attachment when in the raised position.

NOTE: Install all drilled pins and quick-release pins in snowthrower assembly for storage.

4. Push down slightly on foot pedal and push down on lock lever to unlock latch; lift foot pedal towards rear of machine, and pull up on lock lever to lock snowthrower into lowered position.



M63888

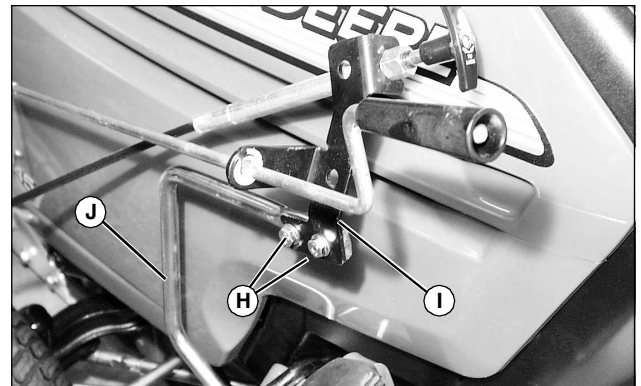
5. Remove sway bar (E) from machine bracket by removing quick-release pin (F).



CAUTION: Avoid injury! Be sure snowthrower is in fully lowered position, and pedal is locked, when attempting to remove snowthrower. For safety purposes, drilled pins are slotted to avoid removal with any tension on brackets and hardware.

6. Remove yokes (G) from front lift links by removing slotted drilled pins and quick-release pins.

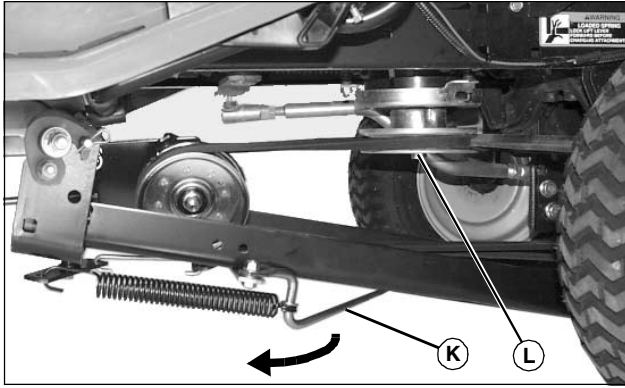
7. Pull back slightly on foot pedal and push down on lock lever to unlock latch; push foot pedal all the way down (towards front of machine), and pull up on lock lever to lock lift into raised position.



MX30707

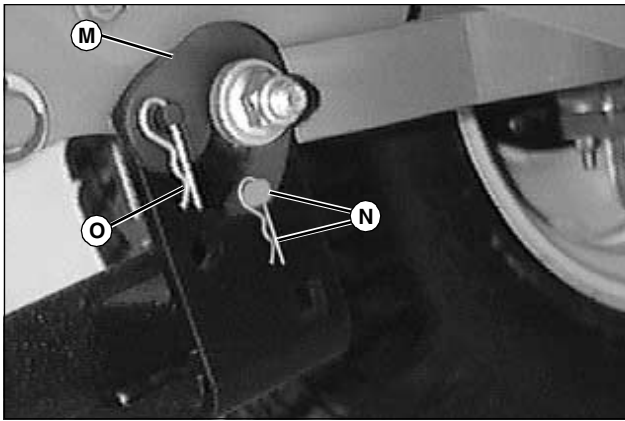
8. Remove nuts (H) and bolts from chute control bracket (I). Remove bracket from support rod (J).

REMOVING AND STORING ATTACHMENT



MX15696

9. Move belt tightener lever (K) out from under frame to unlock and pivot to the rear to loosen belt.
10. Remove belt from machine drive sheave (L).
11. Unlatch snowthrower from pivot points.



M92949a

12. Disconnect C-shaped latch (M), one on each side, from draft arm pivot bolt by removing spring locking pin and drilled pin (N).
13. Remove spring locking pin (O) and C-shaped latch from left side to allow easy removal of frame.
14. Slide snowthrower out from under machine.

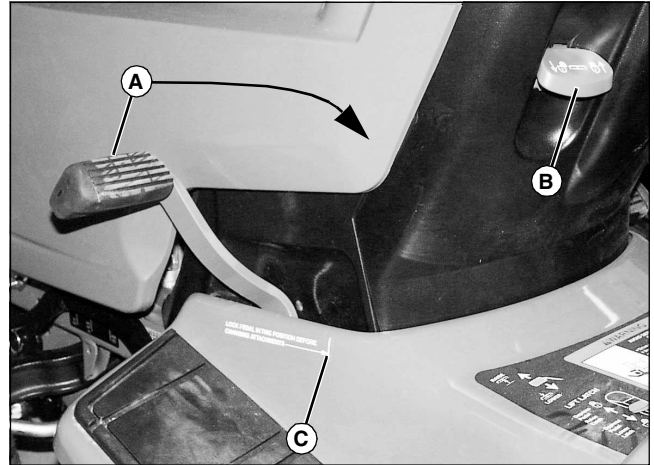


CAUTION: Avoid injury! When the attachment is removed, also remove any ballast that was added to the machine.

Use only attachments and accessories recommended by the manufacturer.

15. Remove any weights that were installed when preparing machine.

Removing Manual Lift Kit



MX30484

1. Push down slightly on foot pedal (A) and push down on lock lever (B) to unlock latch; pull foot pedal (A) towards rear of machine to lowered position (C), and pull up on lock lever (B) to lock snowthrower into lowered position and remove spring lift tension.



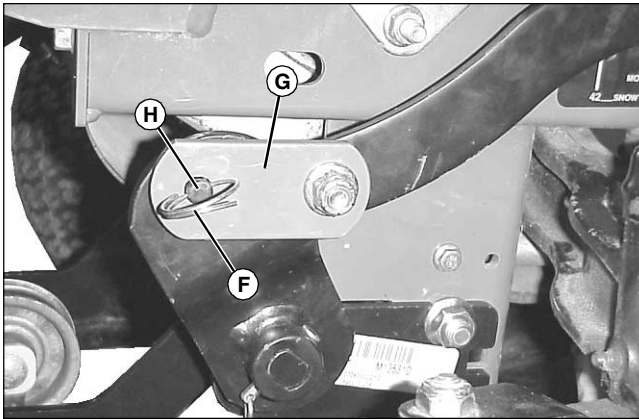
MX30777

2. Remove lift bar assembly foot lift bracket (D) from pedal (E), by removing two M10x30 bolts and locknuts.

NOTE: Install all drilled pins, spring locking pins, and locking rings onto lift kit assembly parts for storage.

3. Remove opposite end of lift bar assembly:

REMOVING AND STORING ATTACHMENT



MX38553

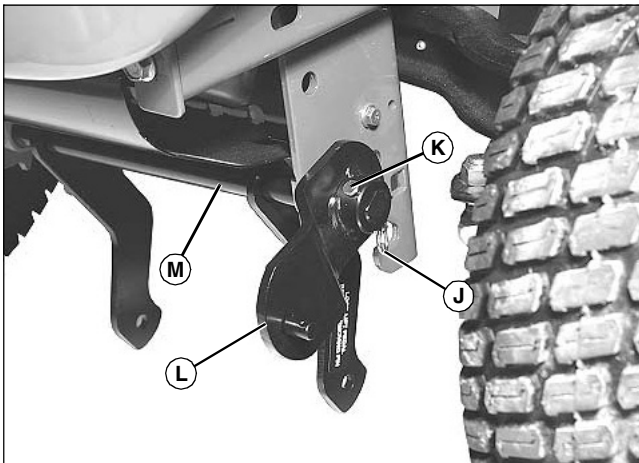
Picture Note: LX280 with all-wheel steer shown.

- For LX280 machines with all-wheel steering, remove locking ring (F), and slide end of lift extension bracket (G) from lift shaft arm pin (H).



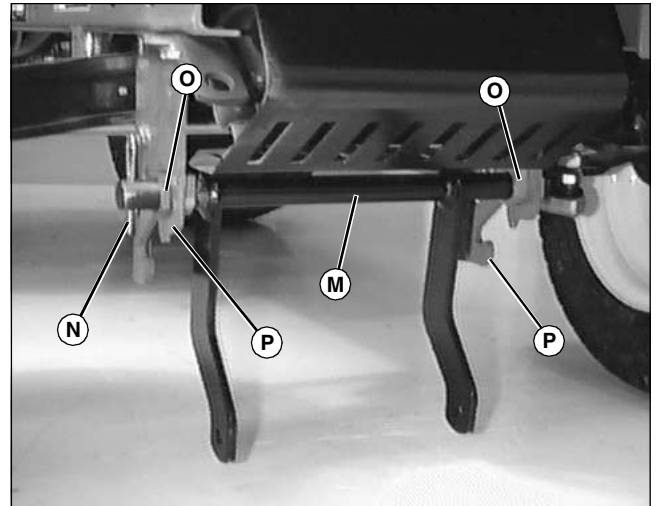
MX30777

- For all other machines, remove locking ring (F), and slide end of lift bar (I) from lift shaft arm pin (H).



MX30776

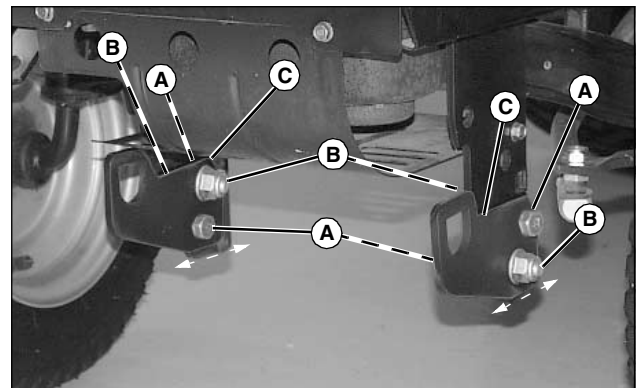
4. Remove small spring locking pin (J) and drilled pin (K). Remove welded lift shaft arm (L) from left side of front lift shaft (M).



M92944

5. Remove spring locking pin (N) and slide "D" shaped bearings (O) and front lift shaft (M) from front tractor brackets (P).

Removing Front Brackets (LX280AWS)



M63833a

1. Remove four hex head bolts (A) and locknuts (B) and remove front brackets (C) from machine frame.
2. Put bolts and locknuts in brackets for storage.

Storing Safety



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 any grass clippings from MCS or bagger attachment.

OPERATING

2. Remove attachment from machine.
3. Clean attachment and driveline, 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.

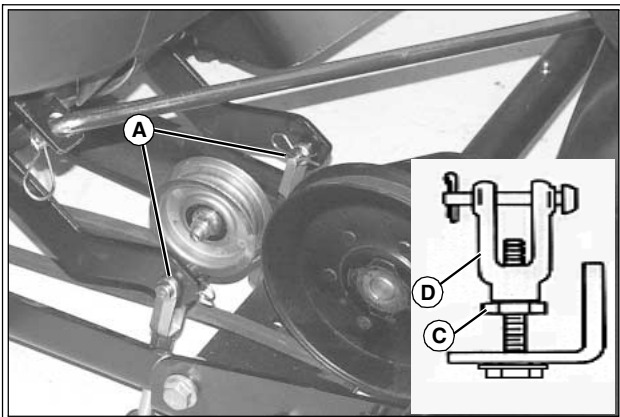
IMPORTANT: Avoid damage! Abrasive surfaces can damage attachment. Store attachment on non-abrasive surface or on wooden blocks.

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

Operating

Adjusting Lift Height

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



M63888, M41413c

2. To increase lift height: Loosen jam nut (C) and turn yoke (D) clockwise. Tighten nut.
3. To decrease lift height: Loosen jam nut (C) and turn yoke (D) counterclockwise. Tighten nut.
4. Lift snowthrower to check adjustment and make further adjustments, if necessary.

Adjusting Lift Pedal Spring Tension

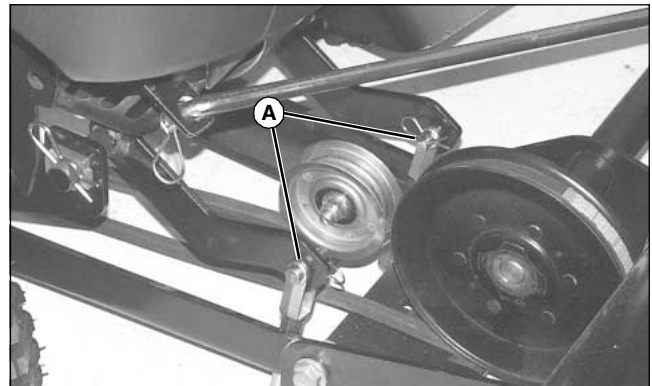


MX8396, MX30710

- Be sure lift spring adjustment bar (A) is set to 42 snowthrower setting (B). Adjust tension, by rotating adjusting bolt (C) (in left front frame tunnel) clockwise to increase tension, and counterclockwise to decrease tension.

Leveling Snowthrower

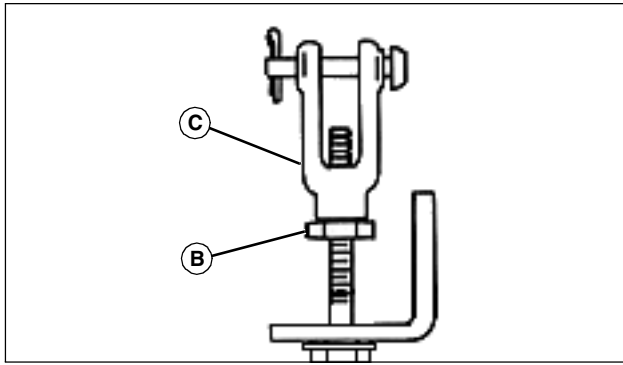
1. Park machine safely. (See Parking Safely in the Safety section.)
2. Snowthrower must be level side-to-side in raised position.
3. Measure distance from each end of scraper blade to floor. Each end should be approximately 10cm (4 in.) from floor when snowthrower is fully raised.



M63888

4. Adjust yokes (A) on snowthrower frame, if necessary:

OPERATING



M41413b

- a. Loosen jam nut (B) on yoke (C) on low side of snowthrower.
- b. Adjust yoke until snowthrower is level.
- c. Tighten jam nut.

Turning Discharge 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.



MX30707

- Turn handle (A) counter-clockwise to rotate chute to the right.
- Turn handle (A) clockwise to rotate chute to the left.

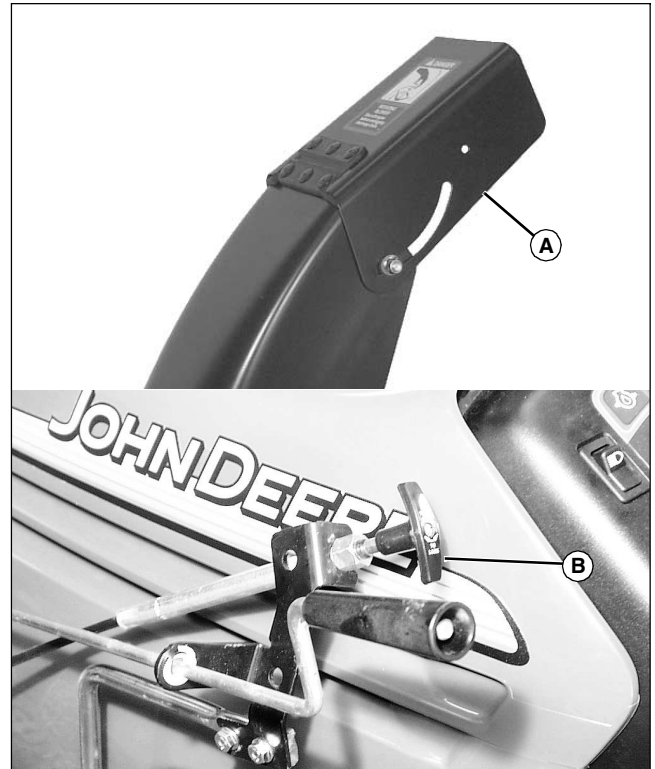
Adjusting Spout



CAUTION: Avoid injury! Before you adjust spout:

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

NOTE: Spout (A) must be tight enough to stay in position when snow from auger hits it, but also loose enough to move with controls.



MX30707, M63895

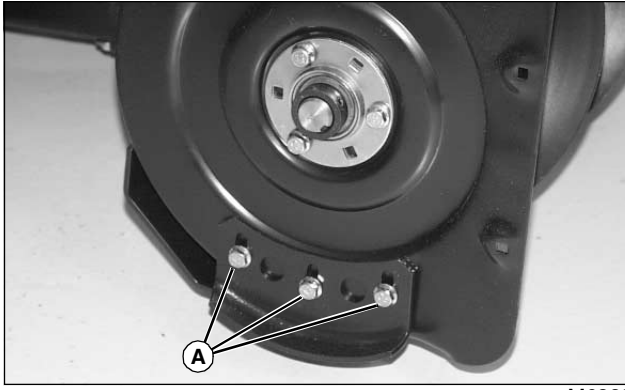
1. Pull handle (B) to move spout down.
2. Push handle (B) to move spout up.

Adjusting Skid Shoes

NOTE: Before using snowthrower on gravel or uneven surfaces, lower skid shoes fully. Both skid shoes must be in the same position.

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

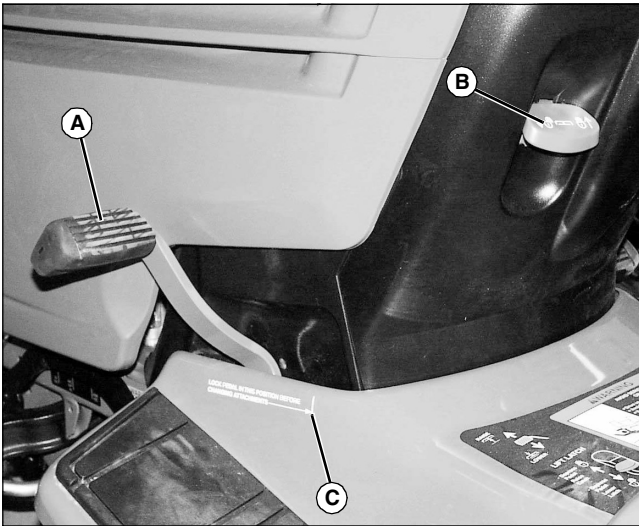
OPERATING



M63889

2. Loosen bolts (A) on each skid shoe.
3. To clear snow from a flat surface, lower skid shoes so that scraper blade is 2 - 3 mm (1/16 - 1/8 in.) above surface.
4. To clear snow from a rough or a gravel surface, raise skid shoes so that scraper blade has maximum clearance.
5. Tighten bolts.

Raising and Lowering Snowthrower



MX30484

- To raise snowthrower: Push foot pedal (A) all the way down (towards front of machine), and pull up on lock lever (B) to lock into raised position.
- To lower snowthrower: Push down slightly on foot pedal (A) and push down on lock lever (B) to unlock latch; release lift pedal to lower snowthrower to the ground.

Operating Snowthrower

Starting The Snowthrower



CAUTION: Avoid injury! Engine exhaust fumes contain carbon monoxide and can cause serious illness or death. Move the machine to an outside area before running the engine. Do not run an engine in an enclosed area without adequate ventilation.

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

1. Start engine.
2. Lower snowthrower to the ground.
3. Unlock park brake.

IMPORTANT: Avoid damage! To help prevent damage to PTO clutch:

- Do not engage PTO with throttle in the fast position.

4. Engage PTO.

NOTE: Operate snowthrower at full throttle for best performance.

5. Move throttle lever to full throttle position.



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

6. Push down on forward foot control pedal to begin forward movement.

Stopping the Snowthrower

1. Slow the machine forward speed.
2. Move the throttle to slow speed.
3. Run the snowthrower for several minutes after throwing snow to prevent freeze-up of the auger and impeller.
4. Clean snow from the snowthrower before storing the machine.

Inspecting, Unplugging, or Parking Snowthrower Safely

1. Stop machine.
2. Lower snowthrower to the ground.
3. Disengage PTO.
4. Lock park brake.
5. Stop engine.
6. Remove key.



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

7. Wait for engine and all moving parts to stop before leaving operator's seat.

SERVICE

Transporting



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

Close fuel shut-off valve, if your machine is equipped.

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

1. Drive machine and snowthrower onto heavy-duty trailer equipped with lights and signage required by law.
2. Lower snowthrower to trailer deck.
3. Stop engine.
4. Lock park brake.
5. Fasten machine and snowthrower to deck with straps, chains, or cables.

Service

Service Intervals

IMPORTANT: Avoid damage! Operating in extreme conditions may require more frequent service intervals:

- Engine components may become dirty or plugged when operating in extreme heat, dust or other severe conditions.
- Engine oil can degrade if machine is operated constantly at slow or low engine speeds or for frequent short periods of time.

Each Use

- Lubricate worm gear.
- Adjust belt tension.

Beginning of Season

- Lubricate chute.
- Lubricate countershaft.

End of Season

- Lubricate worm gear.
- Lubricate chute.
- Lubricate countershaft.

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.

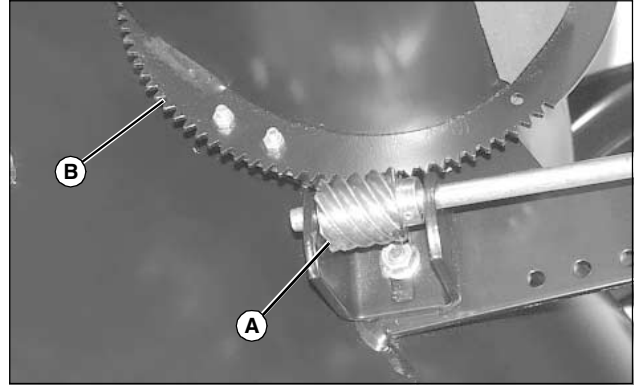
The following greases are preferred:

- John Deere Multi-Purpose SD Polyurea Grease
- John Deere Multi-Purpose HD Lithium Complex Grease
- John Deere Moly High Temperature EP 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.

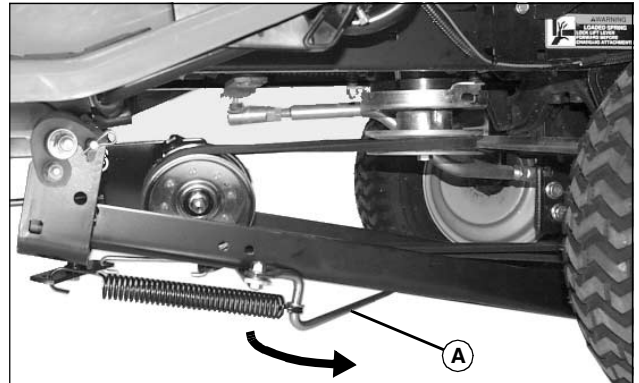
Lubricating Worm Gear and Chute



M63873

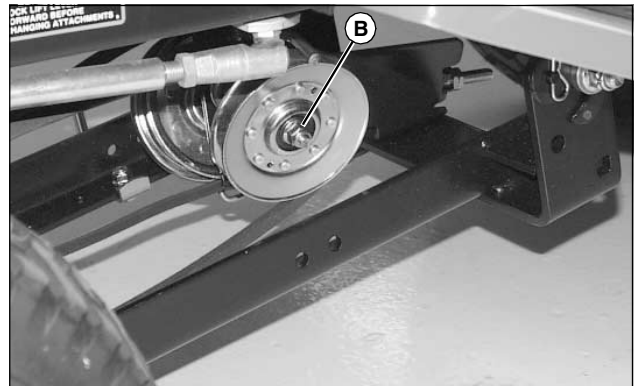
Apply recommended grease on worm gear (A), and between chute (B) and chute base.

Adjusting Drive Belt Tension



MX15696

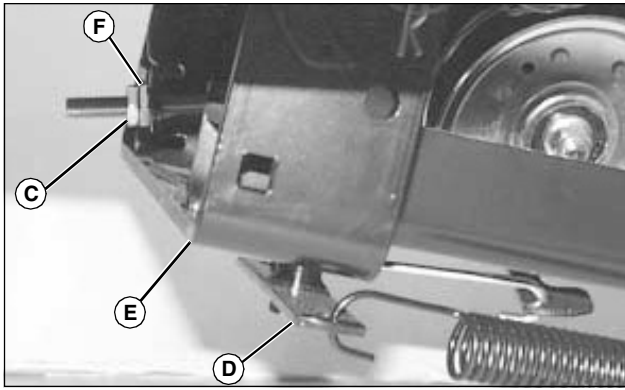
1. Pivot tightening lever (A) forward and lock under snowthrower frame to tighten belt.



M63899

2. Loosen nut (B) on left idler.

SERVICE



M63844

3. Loosen jam nut (C).
 - Belt tension is correct when idler arm (D) is parallel with welded frame (E) as shown.
4. Adjust nut (F) if needed.
5. Tighten jam nut (C).
6. Tighten nut (B) on left idler, loosened earlier.

Replacing Shear Bolt

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

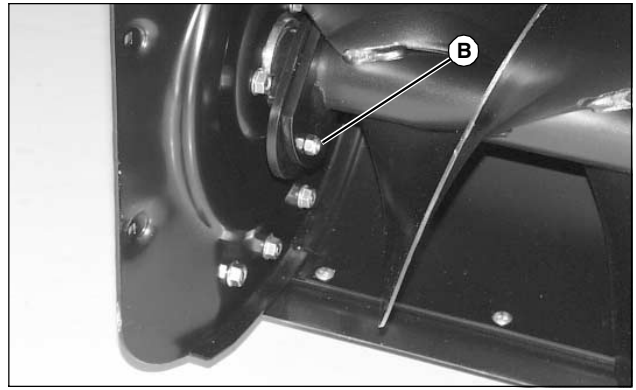
- Softer bolts can shear too easily.
- Harder bolts may not shear and attachment can be damaged.

1. Stop machine.
2. Lock park brake.
3. Remove key.
4. Find and correct the cause for shearing.



M63880

5. Remove spare shear bolt (A) from bracket.

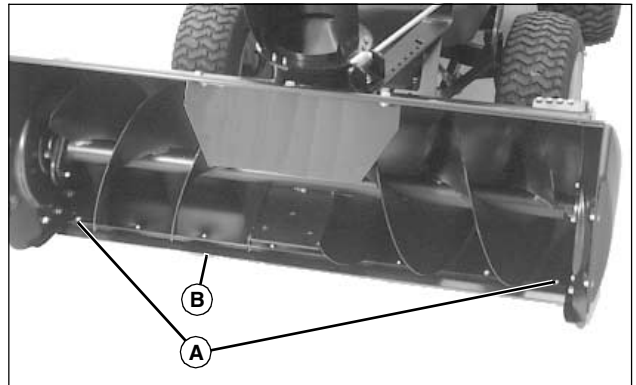


M63890

6. Install new shear bolt (B) in rotor.

Reversing or Replacing Scraper Blade

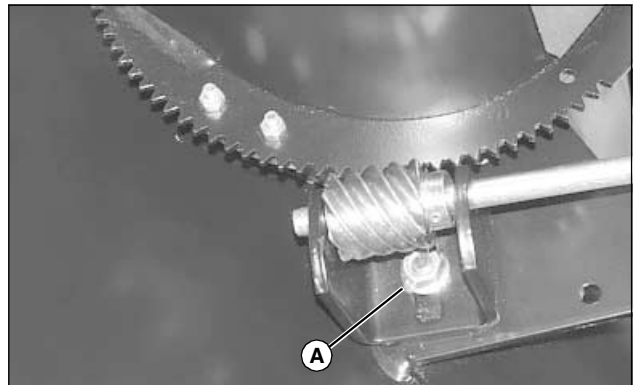
Reverse scraper blade when edge is rough or worn. Replace blade if it is bent.



M95923A

1. Remove eight bolts (A).
2. Reverse or replace blade (B).
3. Fasten scraper blade with bolts.

Adjusting Worm Gear

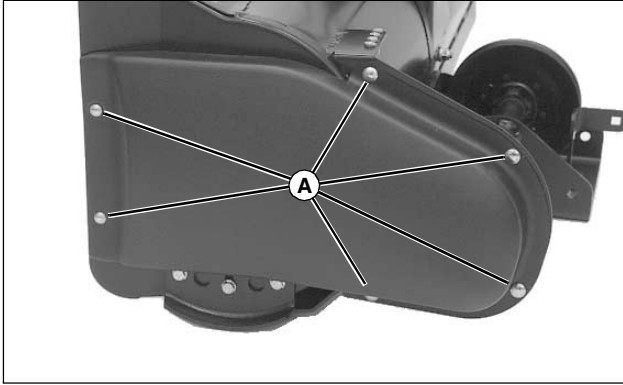


M63873

1. Loosen nut (A).
2. Move worm gear against teeth on discharge chute.
3. Tighten nut.

TROUBLESHOOTING

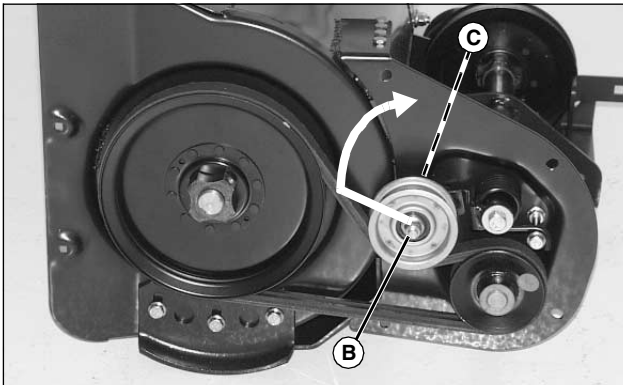
Replacing Auger Drive Belt



M63871

1. Remove six bolts (A) and remove belt cover.

NOTE: If necessary, idler arm can be held up by placing punch in hole (C) behind idler on support plate.

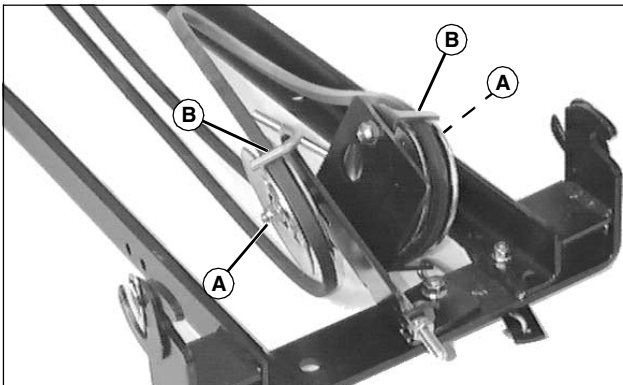


M63870

2. Place wrench on idler bolt (B) and turn clockwise.
3. Remove old belt.
4. Install new belt as shown.
5. Install belt cover.

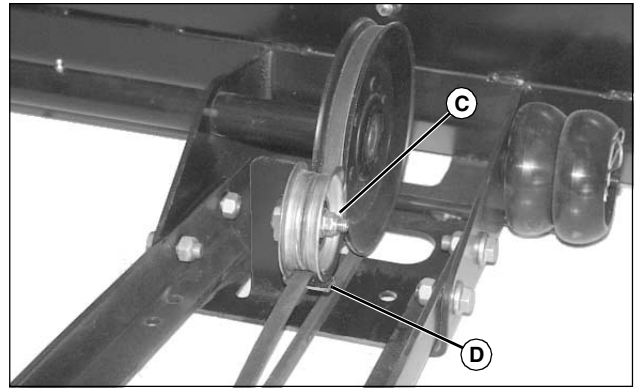
Replacing Drive Belt

1. Remove snowthrower from machine.



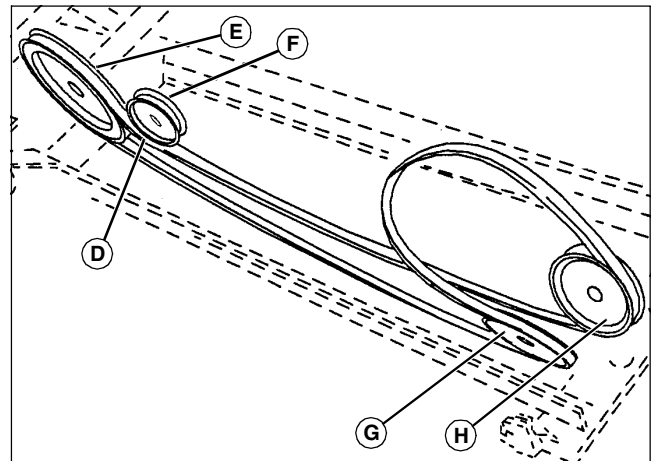
M63833

2. Loosen nuts (A) on idlers to loosen guides (B).
3. Remove belt from idlers.



M63876

4. Loosen bolt (C) and pivot belt guide (D) away from belt.
5. Remove old belt.



M41351

6. Install new belt:

- Put belt around sheave (E) with belt under idler (F).
- Put belt guide (D) close to belt and tighten guide bolt.

NOTE: Support for idlers (G) and (H) needs to be parallel with center line of machine.

V-shaped side of belt goes in groove of idler (G). Flat side of belt goes in groove of idler (H).

- Put belt around idlers (G) and (H) and tighten belt guide bolts.
- Make sure belt is free of twists.

IMPORTANT: Avoid damage! Check position of belt guides after installing attachment on machine. Guides must not touch belt.

7. Install snowthrower.
8. Adjust belt tension.

Troubleshooting

Using Troubleshooting Chart

If you are experiencing a problem that is not listed in this chart, see your Authorized Service Center.

When you have checked all the possible causes listed and you are still experiencing the problem, see your Authorized Service Center.

NOTES

IF	CHECK
Rotor Will Not Turn	Worn or broken engine drive belt. Worn or broken auger drive belt. Broken shear bolt.
Snowthrower Operation Is Erratic	Damaged scraper blade. Worn or broken belts. Adjust belt tension.
Snowthrower Removes Snow Unevenly	Level snowthrower.
Rear Traction Is Poor	Install weights. Install chains on rear tires.
Lift Pedal Will Not Lock In Raised Position	Adjust yokes on snowthrower frame.
Belt Wears Too Fast Or Breaks	Adjust belt guides. Adjust belt tension. Check idler alignment.
Not Enough Lift Height Or Not Low Enough	Adjust yokes on frame.
Lift Effort Too High	Adjust mower lift spring.
Lift Linkage Contacts Tractor Frame	Front lift brackets installed on correct side of machine frame.

Specifications

Snowthrower

Overall Length (Snowthrower only): 1.5 m (57 in.)

Overall Length (Installed on machine):..... 2.3 m (92 in.)

Overall Length

(Installed on machine with rear weights):..... 2.5 m (96.5 in.)

Width Of Cut 1.1 m (42 in.)

Overall Width 1.1 m (43-1/4 in.)

Height Of Opening 41 cm (16-1/4 in.)

Overall Height 94 cm (37 in.)

Auger Diameter 30 cm (12 in.)

Auger Speed 1000 rpm

Lift Height 10 cm (4 in.)

Chute Rotation..... 216 Degrees

Weight, Approximate 84 kg (185 lb)

(Specifications and design subject to change without notice.)

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.

GETTING QUALITY SERVICE

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.

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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