

JOHN DEERE
WORLDWIDE COMMERCIAL & CONSUMER
EQUIPMENT DIVISION

**Snowthrower for LX and GT Series Lawn
and Garden Tractors
42-Inch**

OMM133878 F2

OPERATOR'S MANUAL



JOHN DEERE

North American Version
Litho in U.S.A.



INTRODUCTION

Thank You for Purchasing a John Deere Product

We appreciate having you as a customer and wish you many years of safe and satisfied use of your machine.

Using Your Operator's Manual

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

Reading your operator's manual will help you and others avoid personal injury or damage to the machine. Information given in this manual will provide the operator with the safest and most effective use of the machine. Knowing how to operate this machine safely and correctly will allow you to train others who may operate this machine.

If you have an attachment, use the safety and operating information in the attachment operator's manual along with the machine operator's manual to operate the attachment safely and correctly.

This manual and safety signs on your machine may also be available in other languages (see your authorized dealer to order).

Sections in your operator's manual are placed in a specific order to help you understand all the safety messages and learn the controls so you can operate this machine safely. You can also use this manual to answer any specific operating or servicing questions. A convenient index located at the end of this book will help you to find needed information quickly.

The machine shown in this manual may differ slightly from your machine, but will be similar enough to help you understand our instructions.

RIGHT-HAND and LEFT-HAND sides are determined by facing in the direction the machine will travel when going forward. When you see a broken line arrow (----->), the item referred to is hidden from view.

Before delivering this machine, your dealer performed a predelivery inspection to ensure best performance.

Special Messages

Your manual contains special messages to bring attention to potential safety concerns, machine damage as well as helpful operating and servicing information. Please read all the information carefully to avoid injury and machine damage.



CAUTION: Avoid injury! This symbol and text highlight potential hazards or death to the operator or bystanders that may occur if the hazards or procedures are ignored.

IMPORTANT: Avoid damage! This text is used to tell the operator of actions or conditions that might result in damage to the machine.

NOTE: General information is given throughout the manual that may help the operator in the operation or service of the machine.

PRODUCT IDENTIFICATION

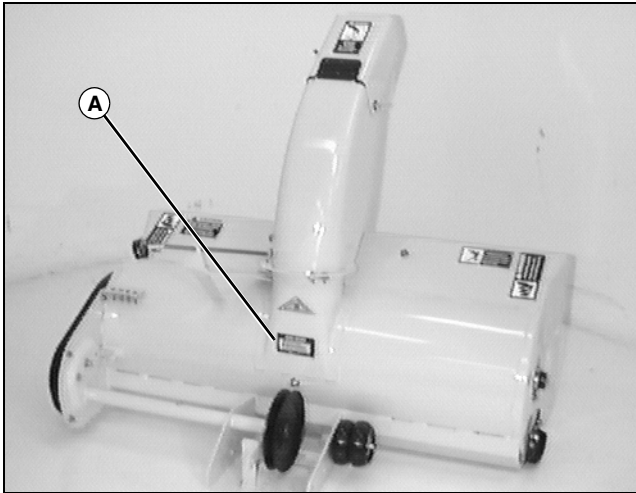
Record Identification Numbers

Snowthrower For LX and GT Series Lawn and Garden Tractors

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.



M92984

DATE OF PURCHASE:

DEALER NAME:

DEALER PHONE:

PRODUCT SERIAL NUMBER (A):

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

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OMM133878 F2 - English

SAFETY

Understanding The Machine Safety Labels



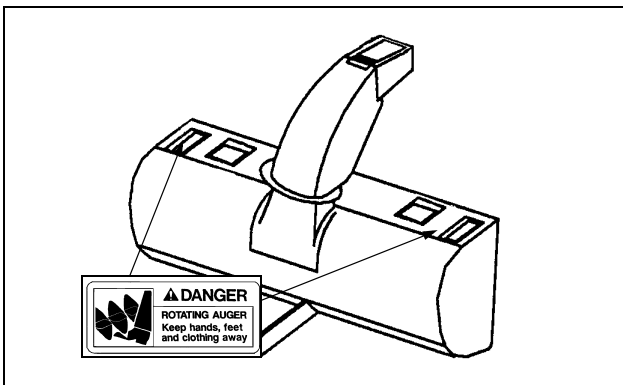
Safety-Alert Symbol

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.

DANGER

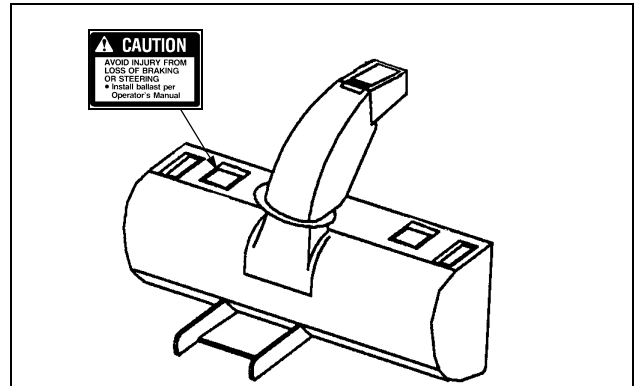


M74600

ROTATING AUGER

Keep hands, feet and clothing away.

CAUTION

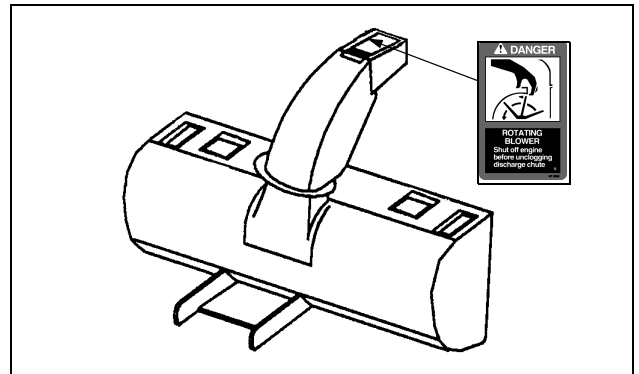


M74600

AVOID INJURY FROM LOSS OF BRAKING OR STEERING

Install ballast per Operator's Manual

DANGER



M74600

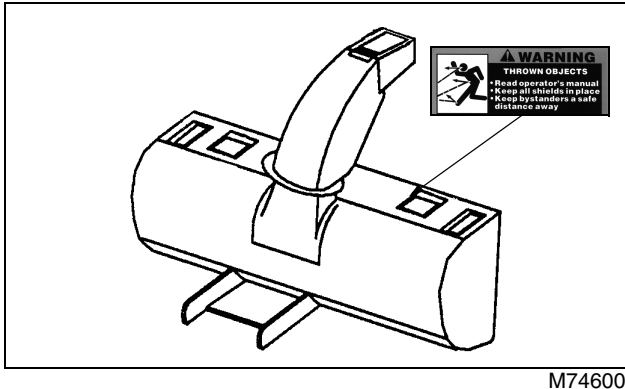
ROTATING BLOWER

Shut off engine before unclogging discharge chute.

SAFETY

WARNING

THROWN OBJECTS



- Read Operator's Manual.
- Keep all shields in place.
- Keep bystanders a safe distance away.

Certification

Your product has been certified by an independent laboratory for compliance with American National Standard B-71.3, "Safety Specifications" for Snow Throwers.

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.

Operating Safely

- Read the machine and attachment operator's manual carefully. Be thoroughly familiar with the controls and the proper use of the equipment. Know how to stop the machine and disengage the controls quickly.

- Let engine and machine adjust to outdoor temperatures before starting to clear snow.
- Do not let children or an untrained person operate machine.
- Never operate the machine without proper guards or other safety devices in place.
- Disengage all clutches and shift into neutral before starting the engine.
- Inspect machine before you operate and at frequent intervals while operating. Be sure hardware is tight. Repair or replace damaged badly worn, or missing parts.
- Make any necessary adjustments before you operate. Never attempt to make any adjustments while the engine is running, unless if recommended in adjustment procedure.
- Take all possible precautions when leaving the machine unattended. Shut off the engine before unclogging the housing or chute, or when making any repairs, adjustments, or inspections. Disengage the PTO, lower the attachment, lock the parking brake, stop the engine, and remove the key.
- Only operate during daylight or with good artificial light.
- Look behind machine before you back up. Back up carefully.
- Do not let anyone, especially children, ride on machine or attachment. Riders are subject to injury such as being struck by foreign objects and being thrown off. Riders may also obstruct the operator's view, resulting in the machine being operated in an unsafe manner.
- Do not operate machine when you are tired or ill or under the influence of drugs or alcohol.
- 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.
- Never direct the discharge chute at bystanders or allow anyone to stand in front of the unit.
- Never operate the machine near glass enclosures, automobiles, window wells, or drop-offs without first adjusting the angle and direction of the snow discharge.
- Use only attachments and accessories approved by the manufacturer of this product.
- After striking a foreign object, stop the engine, remove the spark plug wire, thoroughly inspect the machine for any damage, and repair the damage before starting and operating the machine.
- Do not clear snow across the face of slopes. Go up and down. Exercise extreme caution when changing direction on slopes. Do not attempt to clear steep slopes.

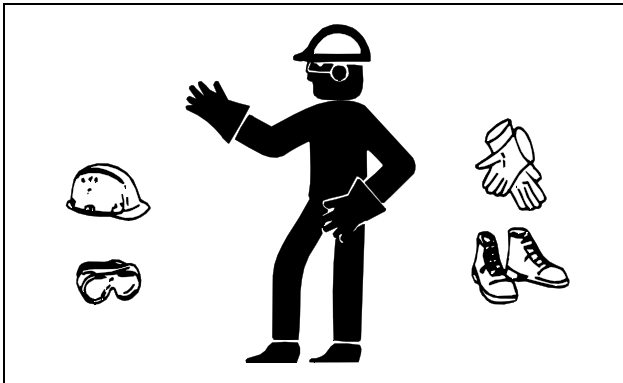
SAFETY

- Exercise extreme caution when operating on or near gravel drives, walks, or roads. Stay alert for hidden hazards or traffic.
- If the machine vibrates abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.
- Operate the machine and auger for a few minutes after throwing snow to prevent freeze-up of the impeller.
- Handle fuel with care. Use an approved fuel container. Never add fuel to a running engine or hot engine. Fill fuel tank outdoors with extreme care. Never fill tank indoors. Replace tank cap securely and wipe up spilled fuel.
- Disengage the power to the attachment when the machine is transported or not in use.
- Do not wear radio or music headphones while operating the machine. Safe operation requires your full attention.
- Always refer to the Storage section of the operator's manual for important details if storing this product for a long period of time.

Checking Area to be Cleared

- Thoroughly inspect the area where the equipment is to be used and remove all doormats, sleds, boards, wires and other foreign objects.
- Keep people and pets out of the work area. Keep children indoors when blowing snow. Turn the machine off if anyone enters the area.
- Be extremely careful if you must clear snow from a gravel surface. Adjust the housing height to clear a gravel surface.

Wear Appropriate Clothing



- Always wear safety goggles or safety glasses with side shields when operating the machine.

- Wear adequate winter outer garments and footwear that will improve footing on slippery surfaces.
- Wear a suitable protective device such as earplugs. Loud noise can cause impairment or loss of hearing.

Avoid Injury from Moving Parts



MX10215

- Do not put hands or feet near or under rotating parts. Keep clear of the discharge area at all times.
- When cleaning, repairing, or inspecting, make certain all moving parts have stopped. Disconnect the spark plug wire to prevent accidental starting. Disconnect the cord to electrical motors.

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.

Practice Safe Maintenance



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- Only qualified, trained adults should service this machine.

SAFETY

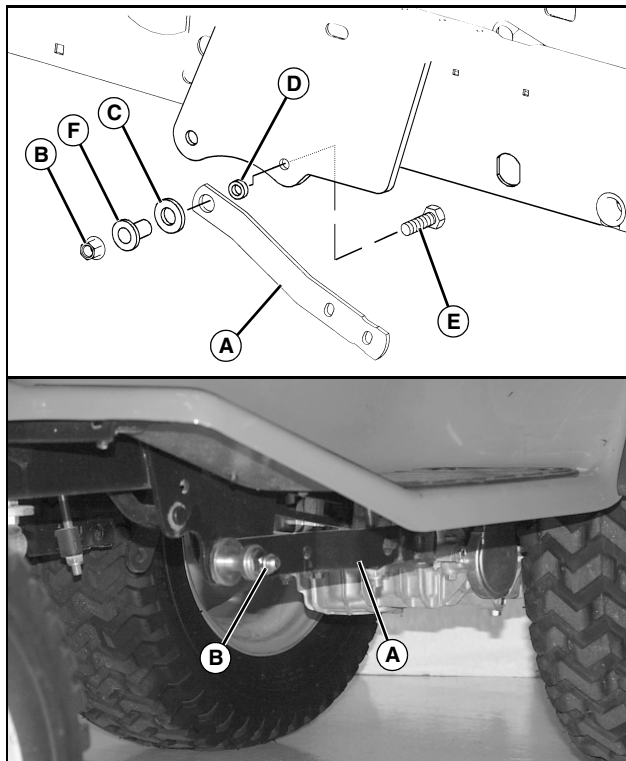
- Understand service procedure before doing work. Keep area clean and dry.
- Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.
- Never lubricate, service, or adjust machine while it is moving. Keep safety devices in place and in working condition. Keep hardware tight.
- Keep hands, feet, clothing, jewelry, and long hair away from any moving parts, to prevent them from getting caught.
- Lower attachments to the ground before servicing machine. 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, carefully release pressure from any components with stored energy, such as hydraulic components.
- Check all shear bolts and other hardware at frequent intervals to be sure the equipment is in safe working condition.
- Securely support any machine 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.
- Do not modify machine or safety devices. Unauthorized modifications may impair its function and safety.

PREPARING VEHICLE

Install Pivot Bolts on Draft Arms (All Models Except LX172, LX173, LX176, LX178, LX186 and LX188)

IMPORTANT: Avoid damage! Spacer must stay in draft arm and draft arm must pivot freely. Binding of draft arm will cause premature wear.

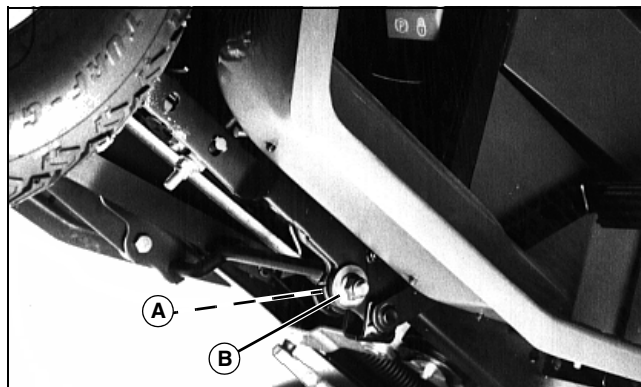
NOTE: If necessary, two extra washers from bag of parts can be used, one on each side, to reduce excessive side play.



1. Change hardware on both draft arms:

- Use original flange nut (B), thick washer (C) and spacer (D) from each draft arm (A).
- Discard original bolt from each draft arm and replace with M12x65 bolt (E) and flanged spacer (F) from bag of parts.

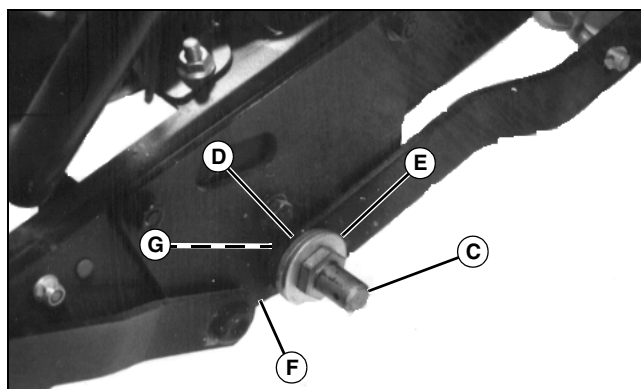
Install Pivot Bolts on Draft Arms (LX172, LX173, LX176, LX178, LX186 and LX188 Only)



1. Remove nut, washer (A) and pivot bolt (B) from machine frame bracket.

IMPORTANT: Avoid damage! Spacer must stay in draft arm and draft arm must pivot freely. Binding of draft arm will cause premature wear.

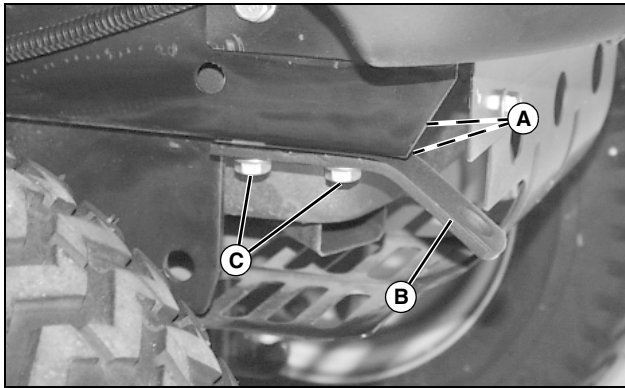
NOTE: If necessary, two extra washers from bag of parts can be used, one on each side, to reduce excessive side play.



2. Install pivot pin (C), original washer (D), new 37 mm washer (E) and spacer on bracket (F).
3. Install nut (G).
4. Repeat procedure for opposites side of machine.

PREPARING VEHICLE

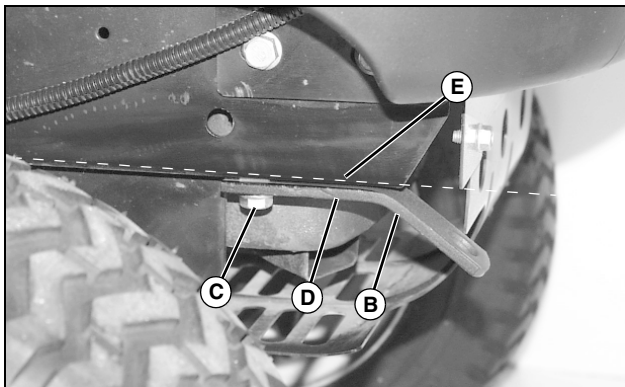
Install Sway Bar Bracket



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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).
3. Follow next procedure if there is only one hole in machine frame.

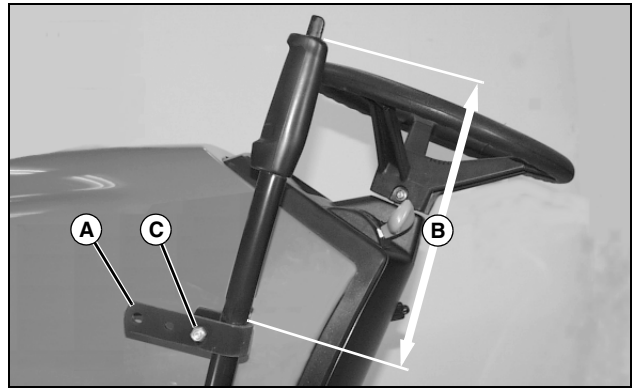
NOTE: If machine frame has only one hole, drill second hole (D) using sway bar bracket (B) as a template.



M63882

- a. Install M8 clamp-on nut and M8x25 bolt (C) in first hole.
- b. Move sway bar bracket so that it is flush with edge (E) of machine frame. Tighten bolt (C).
- c. Drill hole (D) into machine frame using second hole of bracket as template.
- d. Loosen bolt (C) and install M8 clamp-on nut and M8x25 bolt into drilled hole and bracket. Tighten both bolts.

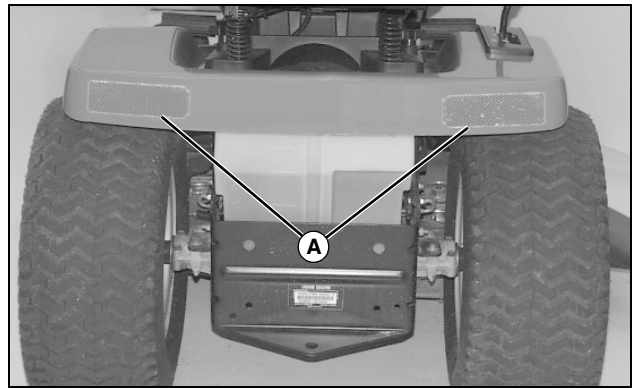
Install J-Bracket on Lift Lever



M63885A

1. Install J-bracket (A) correct distance (B) from top of lever, with short end toward machine, as shown.
 - LX277AWS: Distance (B) should be 34.3 cm (13.5 in.).
 - All Other Models: Distance (B) should be 25.4 cm (10.0 in.).
2. Fasten bracket with M8x45 carriage bolt (C) and M8 locknut.

Install Reflective Tape



M63893A

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

INSTALLING

Preparing the Machine

NOTE: Read and complete the Assembly section at the back of this operator's 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 (BM18977) and Attaching Parts Kit (BM19215) are required to mount attachment to machine.

Installing Ballast



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

When the attachment is removed, 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: LX277-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:
 - Rear Weight Bracket (BM17296) and two 19 kg (42 lb) Rear Suitcase Weights (R66949), or
 - Tractor Trunk (BM19210) with 45.4 kg (100 lb) of ballast
- GT Series Required Ballast:
 - One 19 kg (42 lb) Rear Suitcase Weight (R66949), or
 - Tractor Trunk (BM19210) with 19 kg (42 lb) of ballast, or
 - Rear Wheel Weights (BM17976)
- GT Series Recommended Ballast:
 - Four 19 kg (42 lb) Rear Suitcase Weights (R66949), or
 - Tractor Trunk (BM19210) with 68 kg (150 lb) of ballast, or

- Rear Wheel Weights (BM17976)

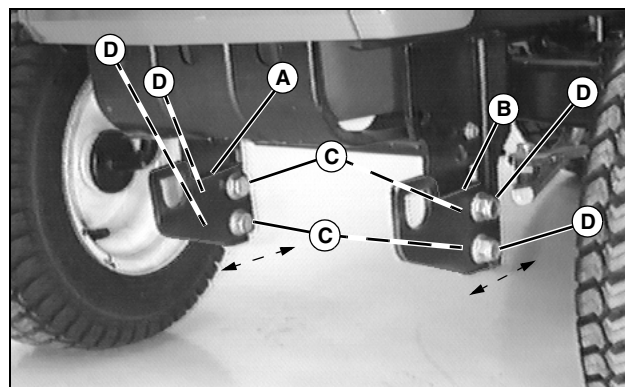
Install Front Brackets (Machines Without D-Shaped Holes in Front Brackets of Frame and LX277AWS Only)

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

NOTE: LX172, LX173, LX176, LX178, LX186 and LX188: Use brackets and bolts provided in Mounting Kit (BM19407). GT242, GT262, GT275 and LX277AWS: Obtain brackets and bolts from a John Deere dealer.

2. Install front brackets on front of machine frame.
 - LX172, LX173, LX176, LX186, GT242, GT262, GT275 and LX277AWS: Right bracket (A) must be on inside of machine frame. Left bracket (B) must be on outside of machine frame.
 - LX178, LX188: Right bracket (A) must be on outside of machine frame. Left bracket (B) must be on inside of machine frame.

NOTE: LX172-LX188: Bolts (C) are hex flange. LX277AWS, GT242, GT262 and GT275: Bolts (C) are hex.

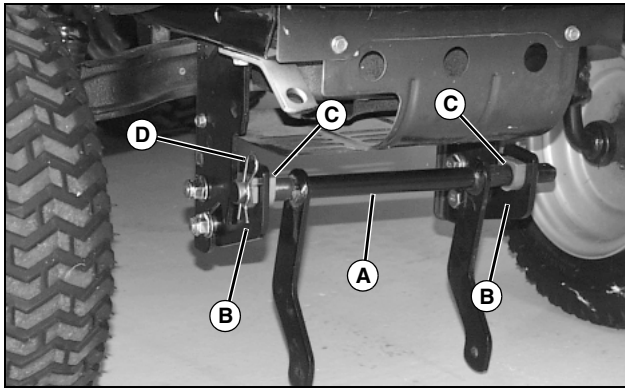


M92956

3. Fasten each bracket with two M12x30 hex head bolts (C) and two M12 hex flange locknuts (D).
 - LX277AWS Only: Bolt heads must be on outside.
 - All other machines: Bolt heads must be on inside.
4. Move brackets so that bottom is level with machine frame. Tighten nuts.

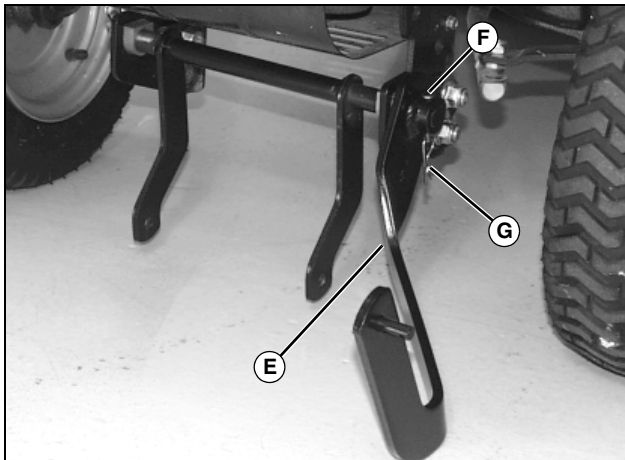
INSTALLING

Install Manual Lift Assembly



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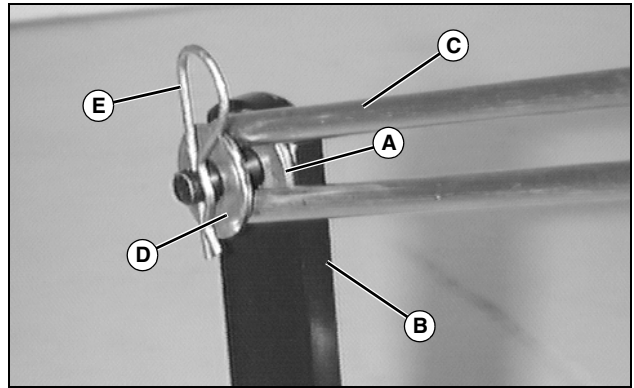
1. Slide left side of front lift shaft (A) and then right side into D-shaped holes of front brackets (B).
2. Slide D-shaped bearings (C) onto each front bracket.
3. Secure right side with medium quick-release pin (D).



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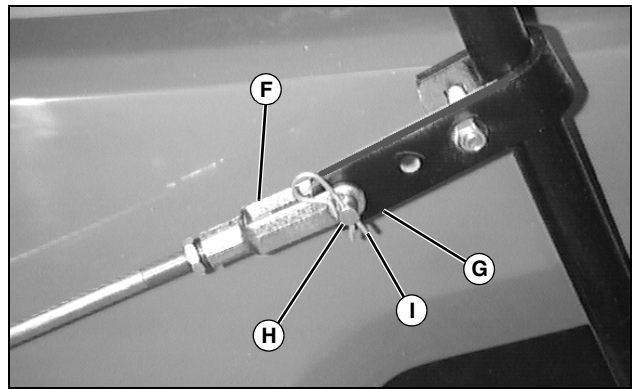
4. Install welded lift arm (E) onto left side of front lift shaft. Fasten with long drilled pin (F) and small quick-release pin (G).

Install Lift Rod



M92189

1. Slide one M10.5 washer (A) on end of welded lift arm (B).
2. Install lift rod (C) on welded lift arm.
3. Slide second M10.5 washer (D) on welded lift arm and fasten with small quick-release pin (E).



M92947

4. Attach lift rod yoke (F) to first hole of J-bracket (G) with medium drilled pin (H) and secure with small quick-release pin (I).

Installing Snowthrower



CAUTION: Avoid injury! Attachment is heavy.

Make sure hands and arms are not under attachment when installing or removing.

1. Align machine with snowthrower frame.
2. LX172, LX173, LX176, LX178, LX186 and LX188 Only: Drive machine onto blocks of wood to raise front end so that snowthrower will slide under front axle.
3. Stop engine and lock park brake.

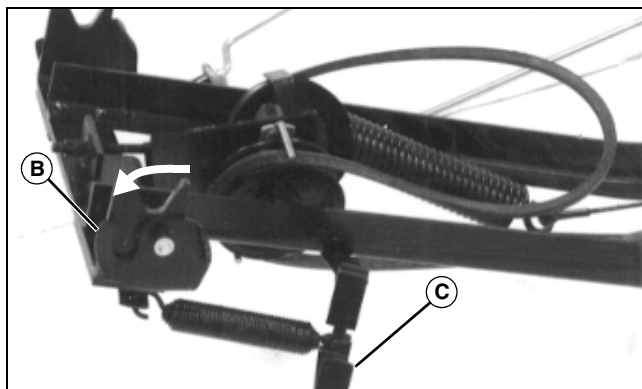
INSTALLING



M63898A

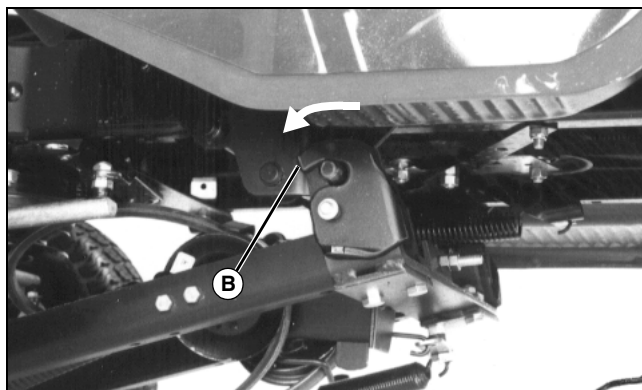
4. Pull lift lever (A) all the way back to raise front lift shaft.
5. Install snowthrower latching mechanism.

LX172, LX173, LX176, LX178, LX186 and LX188 Only:



M74468

- a. Pivot each cam (B) rearward to open position.
- b. Push handle (C) forward.
- c. Slide snowthrower frame under machine.
- d. Align V-brackets on snowthrower frame with pivot pins on machine.



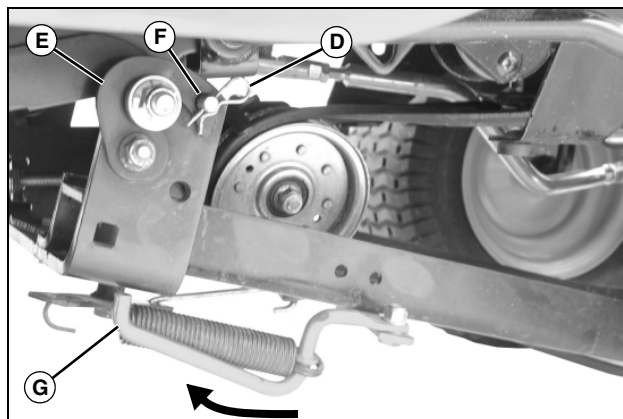
M62477

- e. Pivot each cam (B) up and over pivot pin until it locks.

All Models Except LX172, LX173, LX176, LX178,

LX186 and LX188:

- a. Remove drilled pin from C-shaped latch in snowthrower frame and let latch swing open.
- b. Slide snowthrower frame under machine.

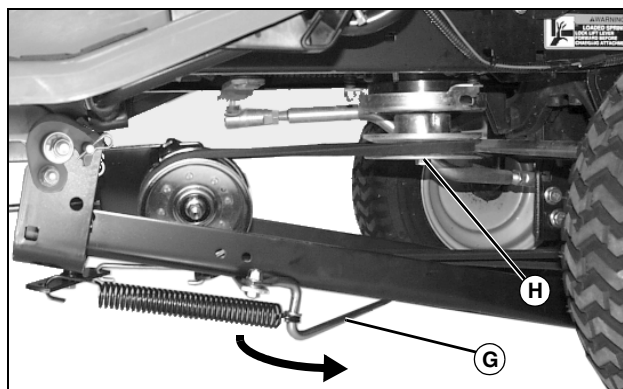


MX15695

- c. GT242, GT262 and GT275 Only: Remove quick-release pin (D) and C-shaped latch (E) from right side only to allow easy installation of snowthrower frame.

NOTE: Use two extra M13x37x3 washers from bag of parts if C-shaped latch (E) does not pivot freely when frame is pulled to one side.

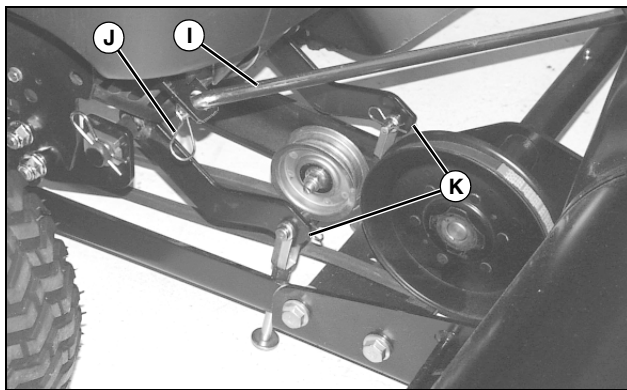
- d. Attach both sides of rear snowthrower frame to draft arm pivot bolts using C-shaped latch (E). Make sure latch pivots freely.
- e. GT242, GT262 and GT275 Only: Install C-shaped latch (E) and quick-release pin (D) on right side.
- f. Install drilled pins (F) through hole in latch and snowthrower frame. Fasten with quick-release pins.
6. Pivot belt tightener lever (G) to the rear to loosen belt.



MX15696

7. Install belt on machine drive sheave (H).
8. Pivot tightening lever (G) forward and lock under snowthrower frame to tighten belt.
9. Check belt tension.
10. Push lift lever all the way forward to lower front lift shaft.

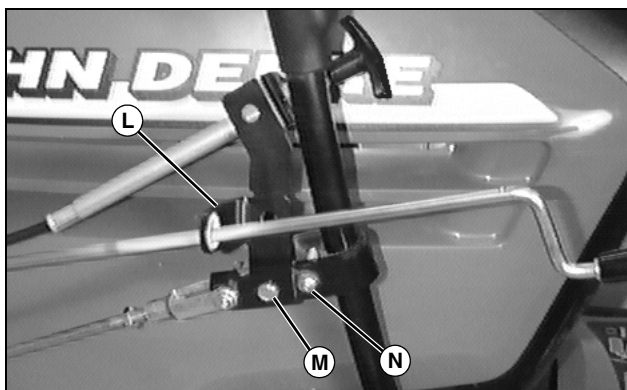
INSTALLING



M63888

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

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

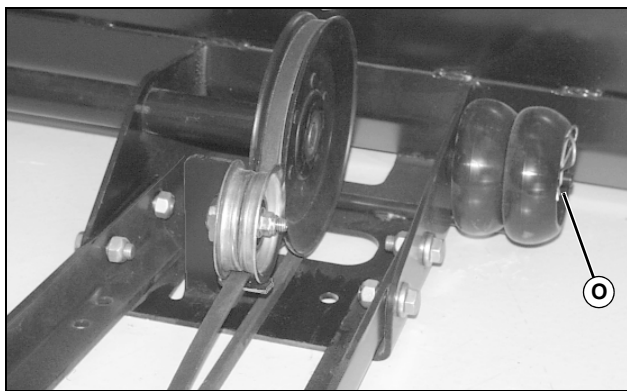


M63826

13. Install slotted end of chute and spout control bracket (L) over drilled pin (M) and fasten to J-bracket with M8x25 hex flange bolt and M8 locknut (N).

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

14. Pull lift lever all the way back and lock snowthrower in raised position.



M63876

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

REMOVING

Removing Snowthrower

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



CAUTION: Avoid injury! Attachment is heavy.

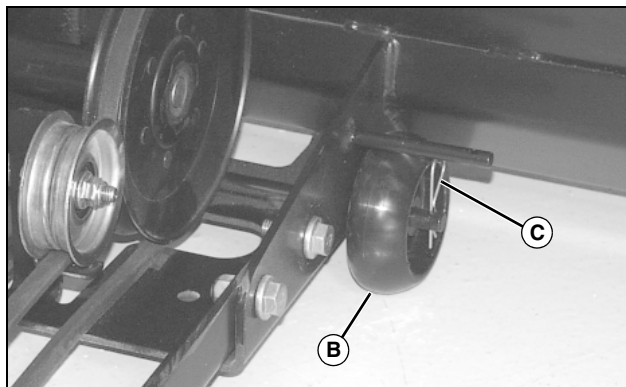
Make sure hands and arms are not under attachment when installing or removing.

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



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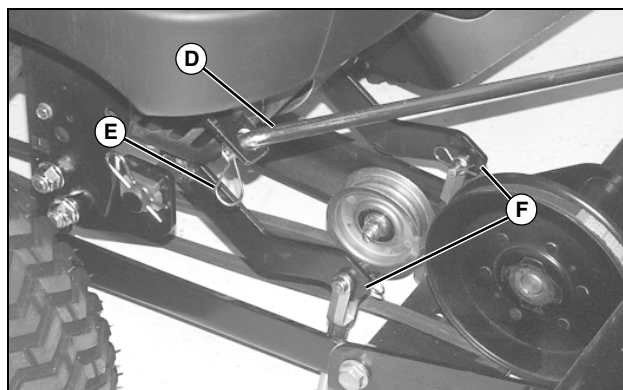
2. Pull lift lever (A) all the way back and lock snowthrower in raised position.



M63877

3. Remove wheels (B) from storage position and install one on each side of snowthrower frame. Fasten with quick-release pin (C).

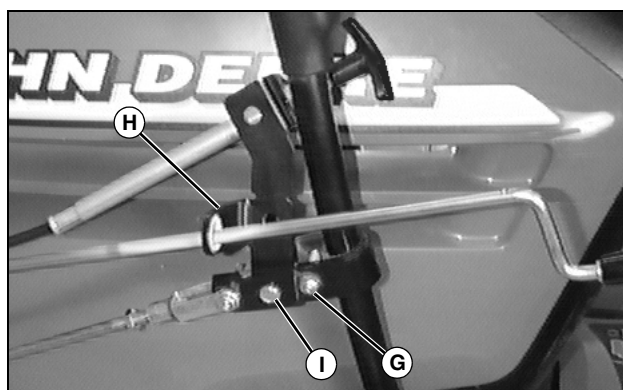
4. Lower snowthrower to ground.



M63888

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

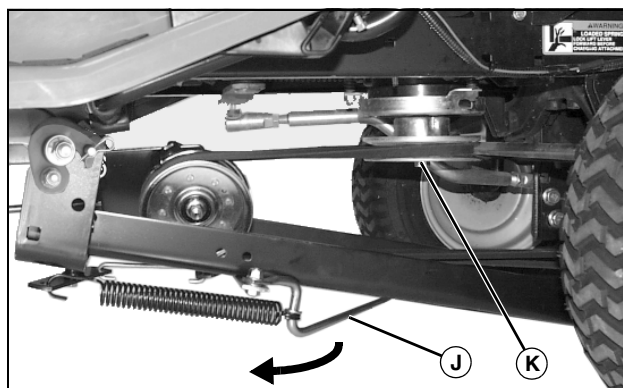
6. Remove yokes (F) from front lift links by removing drilled pins and quick-release pins.



M63826

7. Pull lift lever (A) all the way back to raise front lift shaft.

8. Remove quick-release pin and drilled pin (G) from chute control bracket (H). Remove slotted end of bracket from drilled pin (I).



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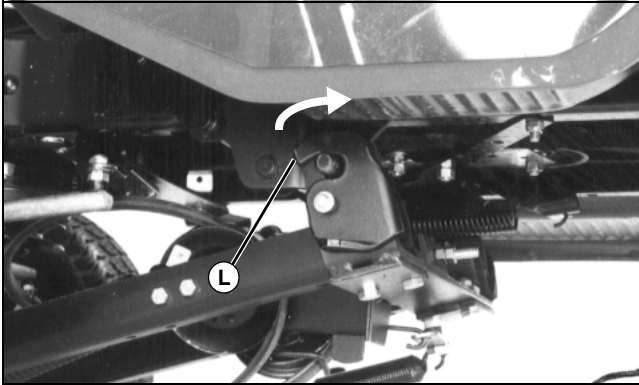
9. Move belt tightener lever (J) out from under frame to unlock and pivot to the rear to loosen belt.

10. Remove belt from machine drive sheave (K).

11. Unlatch snowthrower from pivot points.

REMOVING

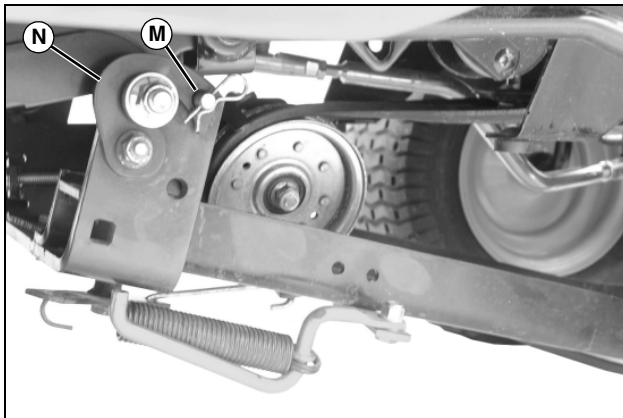
LX172, LX173, LX176, LX178, LX186 and LX188
Only:



M62477

- Pivot each cam (L) rearward from pivot pin and lower snowthrower frame.

All Models Except LX172, LX173, LX176, LX178,
LX186 and LX188:



MX15695

- Remove drilled pin (M) and quick-release pin and rotate C-shaped latch (N), one on each side, to disconnect from draft arm pivot bolt (O).

12. Slide snowthrower out from under machine.



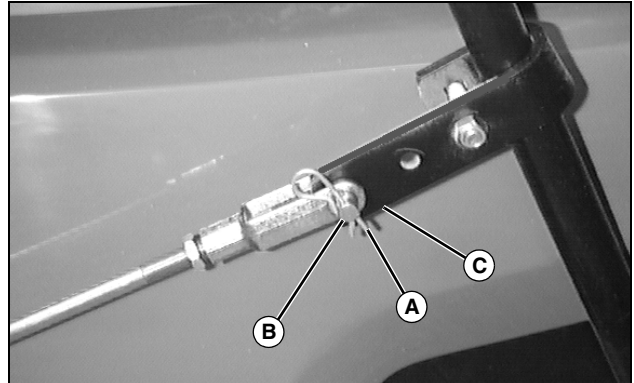
CAUTION: Avoid injury! When the attachment is removed, also remove any ballast that was added to the machine.

Use only attachments and accessories recommended by the manufacturer.

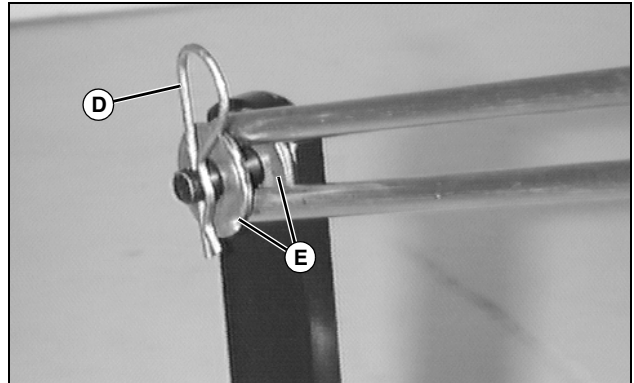
13. Remove any weights that were installed when preparing machine.

Remove Manual Lift Assembly

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

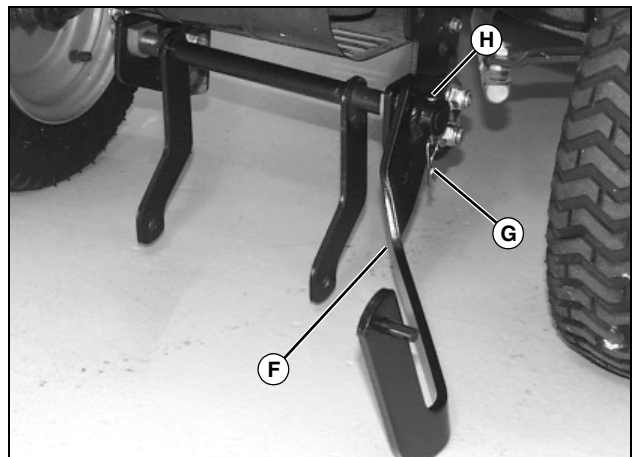


M92947



M92189

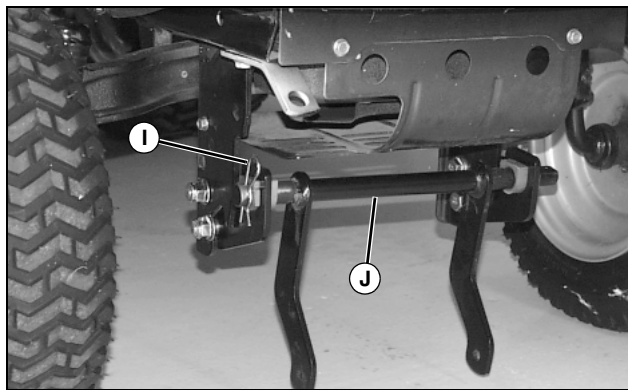
1. Remove lift rod by removing quick-release pin (A) and drilled pin (B) from J-bracket (C) and quick-release pin (D) and two washers (E) from welded lift arm.



M63887

2. Remove welded lift arm (F) from right side of front lift shaft by removing quick-release pin (G) and drilled pin (H).

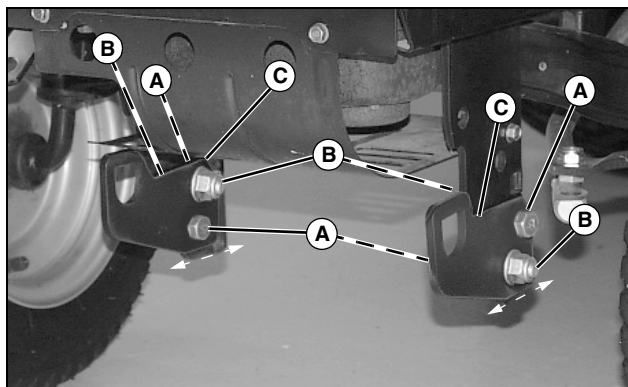
REMOVING



M63886

3. Remove quick-release pin (I) and slide D-shaped bearings and front lift shaft (J) from front machine brackets.

Remove Front Brackets



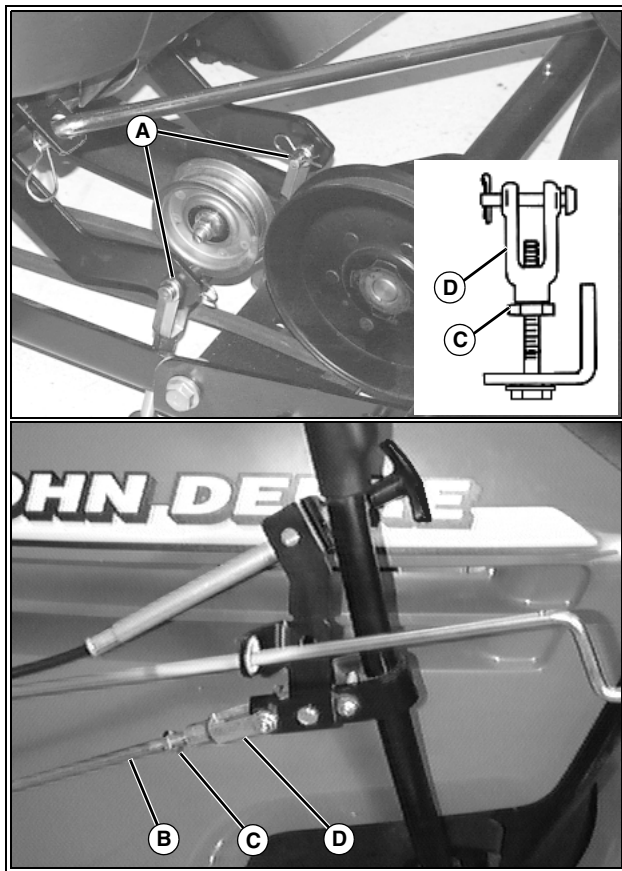
M63833a

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.

OPERATING

Adjusting Lift Height

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



M63826

Picture Note: Snowthrower lift can be adjusted by turning two yokes (A) on snowthrower frame or yoke attached to lift rod (B).

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 Effort



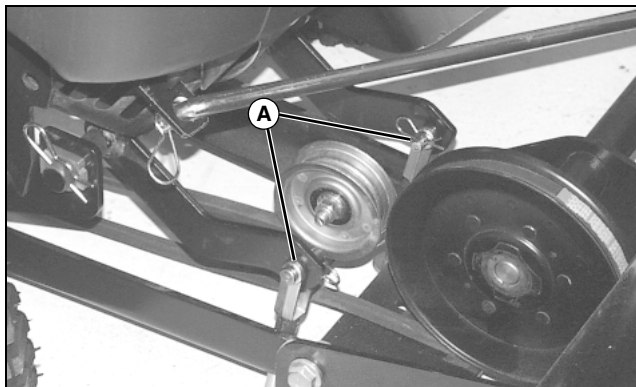
M63826

Lift effort can be reduced by moving J-bracket (A) lower on lift handle of machine. However, this will reduce amount of lift height as well as decrease amount of distance snowthrower will go below grade.

Additional lift height adjustments can then be made by adjusting lift yokes on lift rod or lift arms.

Leveling Snowthrower

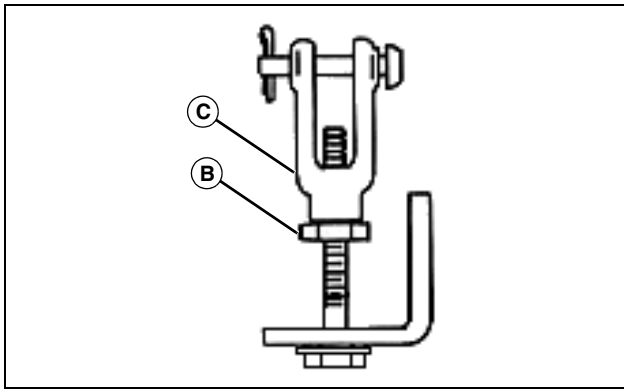
1. Park machine safely. (See Parking Safely in the Safety section.)
2. Pull lift lever back to raise snowthrower fully.
3. Measure distance from each end of scraper blade to floor. Each end should be approximately 10cm (4 in.) from floor when snowthrower is fully raised.



M63888

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

OPERATING

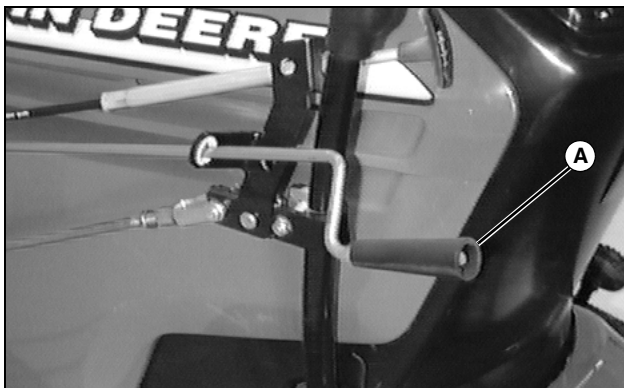


M41413b

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



M63892A

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

Adjusting Spout

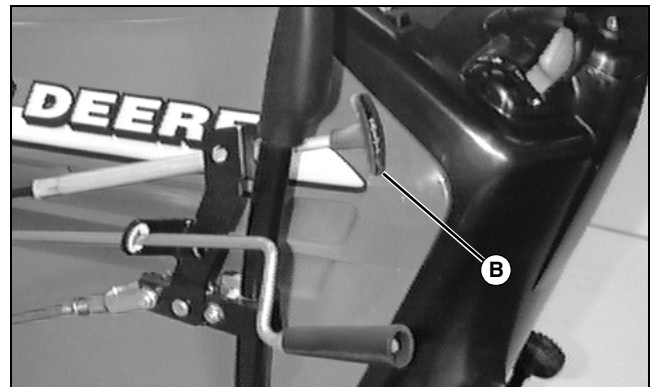
CAUTION: Avoid injury! Before you adjust spout:

- 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.



M63895



M63834

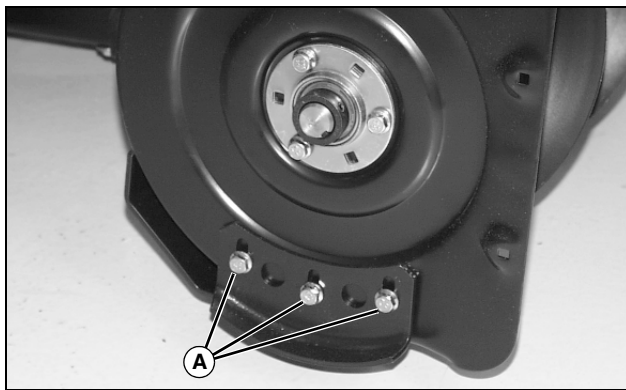
- Pull handle (B) to move spout down.
- Push handle (B) to move spout up.

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.

- 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



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



M63898A

- To lower snowthrower: Push lift lever (A) forward to latch in lockout position.
- To raise snowthrower: Pull lift lever (A) back.

Operating 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.

NOTE: Lift lever must be in float position to allow snowthrower to follow contours of ground.

1. Start engine.
2. Push lift lever forward to lower snowthrower to ground and lock in float position.
3. Unlock park brake.

IMPORTANT: Avoid damage! Do not engage PTO if engine is at full throttle. Engaging PTO with engine at full throttle can damage clutch.

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.

Inspect, Unplug, or Park Snowthrower Safely

1. Stop machine.

OPERATING

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

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

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.

REPLACEMENT PARTS

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.

Part numbers may change, use part numbers listed below when you order. If a number changes, your dealer will have the latest number.

When you order parts, your John Deere dealer needs your machine serial number and engine serial number. These are the numbers that you have recorded in the Introduction section of this manual.

ITEM	PART NUMBER
Auger Drive Belt	M125661
Snowthrower Drive Belt	M131766
Shear Bolt	19H1914
Shear Bolt Nut	M40333
Scraper Blade	M72095

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

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 may lose efficiency if vehicle is operated constantly at slow or low engine speeds or with frequent short trips.

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.

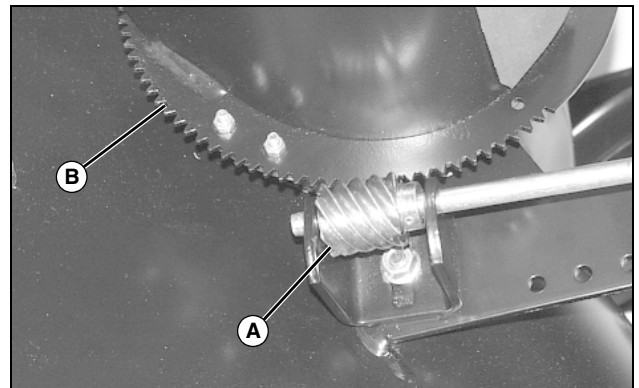
The following greases are preferred:

- 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.

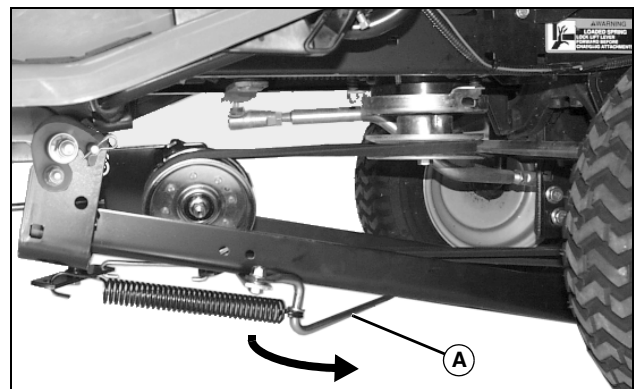
Lubricating Worm Gear and Chute



M63873

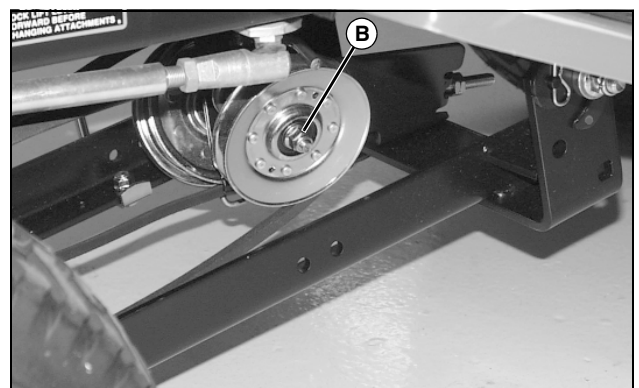
Apply recommended grease on worm gear (A), and between chute (B) and chute base.

Adjusting Drive Belt Tension



MX15696

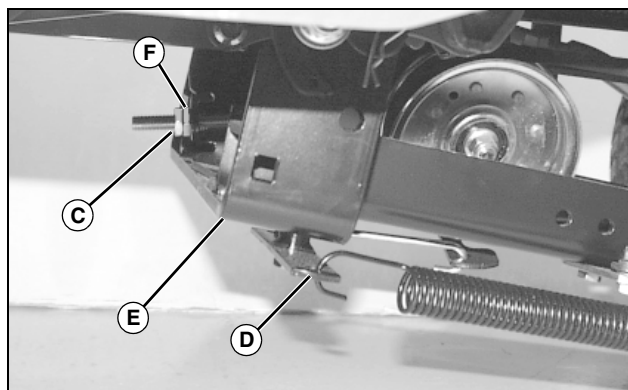
1. Pivot tightening lever (A) forward and lock under snowthrower frame to tighten belt.



M63899

2. Loosen nut (B) on left idler.

SERVICE



M63844

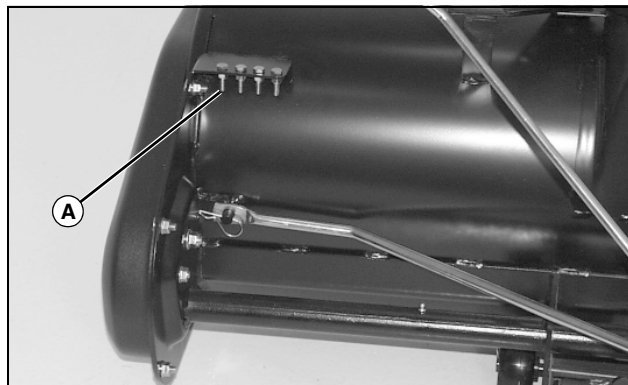
3. Loosen jam nut (C).
 - Belt tension is correct when idler arm (D) is parallel with welded frame (E) as shown.
4. Adjust nut (F) if needed.
5. Tighten jam nut (C).
6. Tighten nut (B) on left idler, loosened earlier.

Replacing Shear Bolt

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

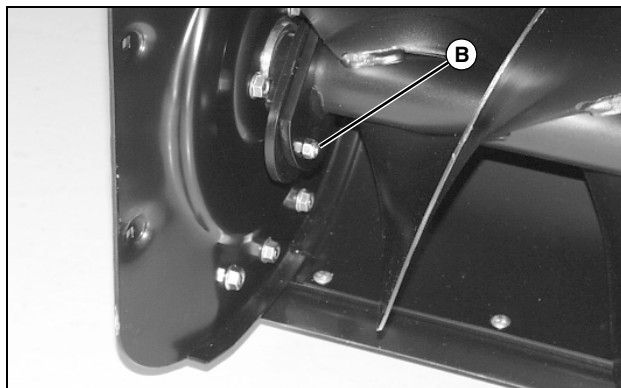
- Softer bolts can shear too easily.
- Harder bolts may not shear and attachment can be damaged.

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.

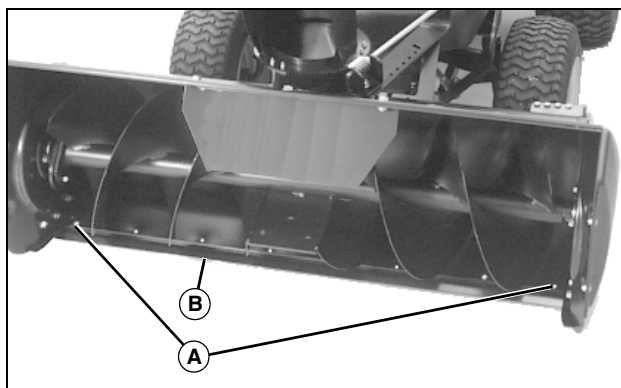


M63890

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.

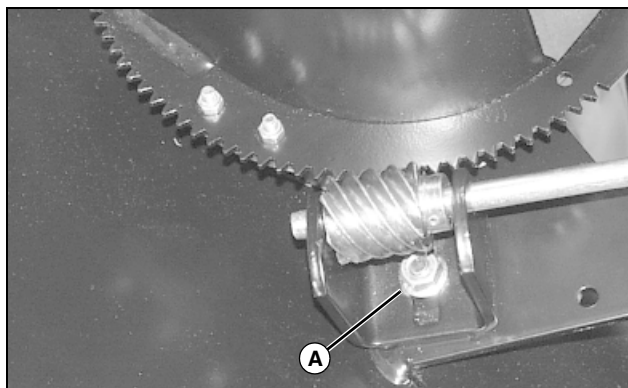


M95923A

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

SERVICE

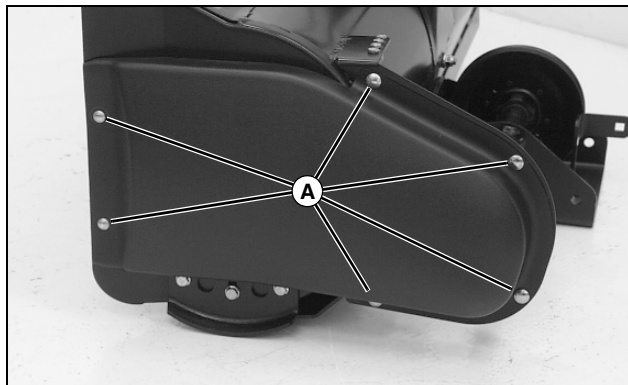
Adjusting Worm Gear



M63873

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

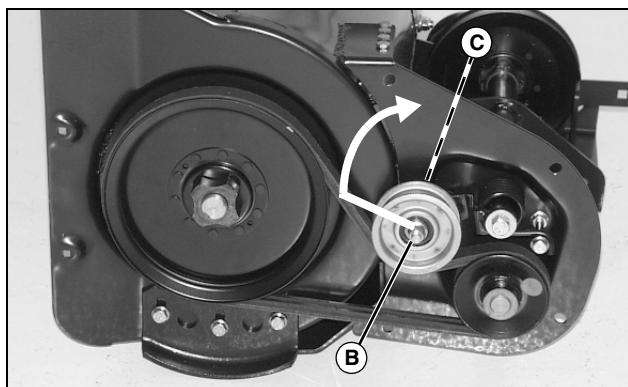
Replacing Auger Drive Belt



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.



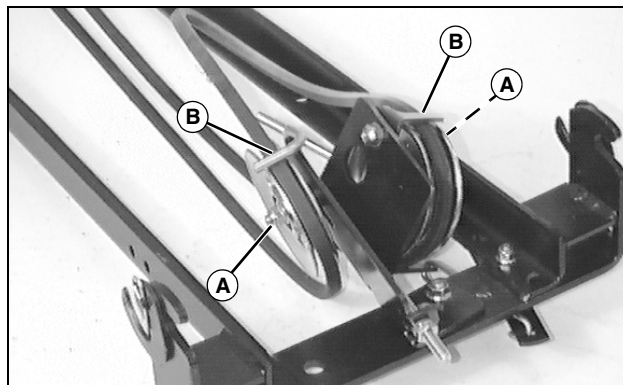
M63870

2. Place wrench on idler bolt (B) and turn clockwise.

3. Remove old belt.
4. Install new belt as shown.
5. Install belt cover.

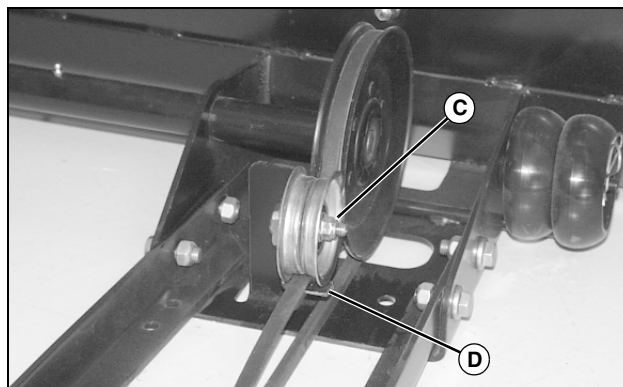
Replacing Drive Belt

1. Remove snowthrower from machine.



M63833

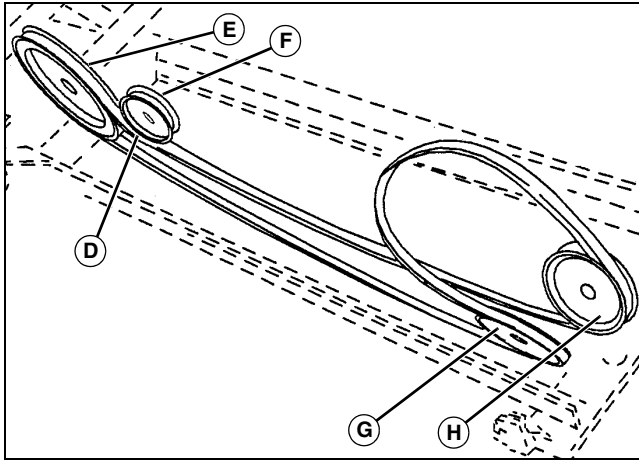
2. Loosen nuts (A) on idlers to loosen guides (B).
3. Remove belt from idlers.



M63876

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

SERVICE



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

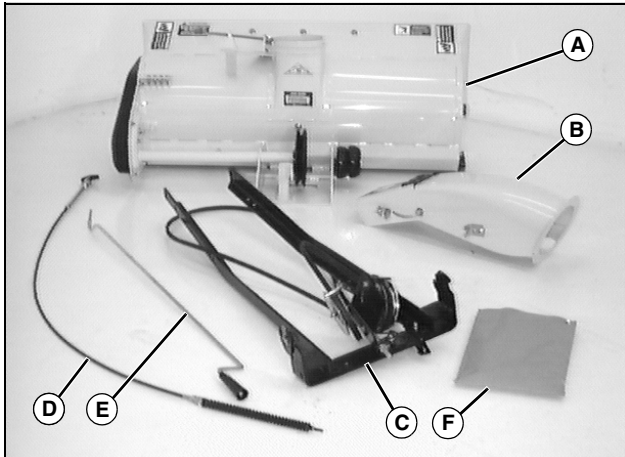
If you are experiencing a problem that is not listed in this chart, see your Authorized Service Center.

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

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 Lever Will Not Lock In Raised Position	Adjust yokes on snowthrower frame. Adjust yoke on lift lever.
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. Adjust yokes on lift lever. Move J-bracket higher or lower.
Lift Effort Too High	Move J-bracket lower.
Lift Rod Contacts Hood	Front lift brackets installed on correct side of machine frame. Rotate J-bracket away from machine.

ASSEMBLY

Identify Parts



- A - Snowthrower Assembly**
- B - Welded Discharge Chute**
- C - Welded Frame with Idlers and Belt**
- D - Spout Control Cable**
- E - Chute Control Rod**
- F - Bag of Parts**

Bag of Parts (F) Contains:

Qty	Description	Size
6	Bolt	M5x20
1	Bolt	M8x25
1	Bolt	M10x50
4	Hex Flange Bolt	M12x30
1	Hex Nut	#10
6	Locknut	M5
1	Locknut	M8
1	Locknut	M10
4	Locknut	M12
1	Small Drilled Pin	
2	Medium Drilled Pin	
5	Small Quick-Release Pin	
2	Washer (Extra for Rear Mounts)	M13x37x3
3	Clip	
1	Black U-Joint	
1	Snap-In Bearing	

Qty	Description	Size
1	Flat Idler Sheave with Bearing	
1	Belt Angle Bracket	
1	Chute and Spout Control Bracket	
1	Cable Guide	

Attaching Parts Carton Contains:

Qty	Description	Size
2	Cap Screw	M12x65
2	Hex Head Bolt	3/8x2.5
2	Hex Flange Bolt	M8x25
2	Hex Jam Nut	3/8
2	Clamp-On Nut	M8
2	Washer	.406x1.0x.134
2	Drilled Pin	
2	Large Quick-Release Pin	
2	Small Quick-Release Pin	
2	Flanged Spacer	
2	Yoke	
1	Sway Bar Rod	
1	Sway Bar Bracket	
2	Reflective Tape	

Parts in Front Lift Kit:

Qty	Description	Size
1	Bolt	M8x25
1	Bolt	M8x45
2	Hex Nut	M8
1	Jam Nut	3/8
2	Washer	M10.5x30x2.5
2	Small Quick-Release Pin	
1	Large Quick-Release Pin	
1	Clevis Pin	
2	D-Shaped Bearing	

ASSEMBLY

Qty	Description	Size
1	Yoke	
1	Lift Rod	
1	Welded Front Lift Shaft	
1	Welded Lift Lever	
1	J-Bracket	

LX172, LX173, LX176, LX178, LX186 and LX188 Only:
Parts in Mounting Kit (BM19407):

Qty	Description	Size
4	Bolt	M10x35
2	Bolt	M10x60
4	Hex Flange Bolt	M12x30
4	Locknut	M10
4	Locknut	M12
2	Washer (Extra for Rear Mounts)	
2	Spacer	
2	Special Threaded Pin	
1	Foam Pad	
1	Idler Link	
2	Welded Latch	
2	Front Lift Bracket	

GT242, GT262 and GT275 Only: Parts Obtained From a John Deere Dealer:

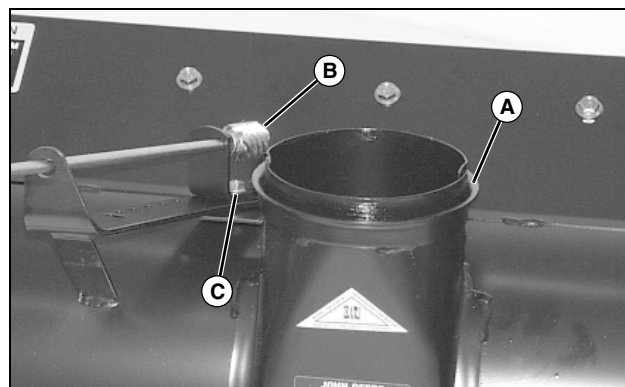
Qty	Description	Size
4	Hex Bolt	M12x30
4	Hex Flange Locknut	M12
2	Front Lift Bracket	

LX277AWS Only: Parts Obtained From a John Deere Dealer:

Qty	Description	Size
4	Hex Bolt	M12x30
4	Hex Flange Locknut	M12

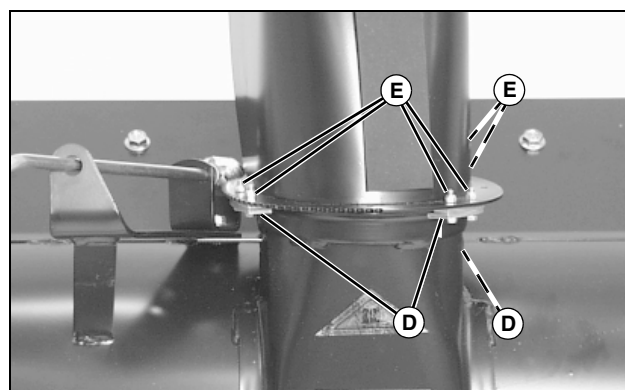
Qty	Description	Size
2	Front Lift Bracket	

Assemble Chute and Welded Frame



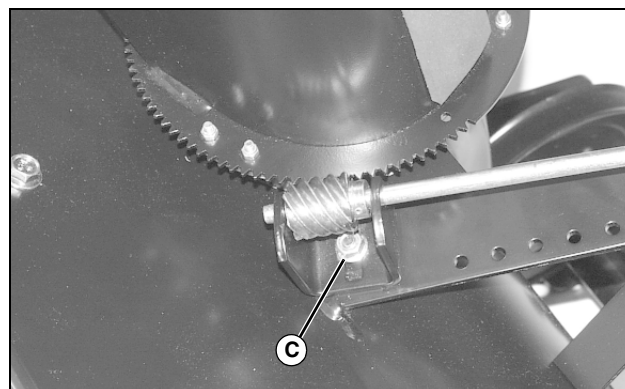
M63869

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 (E) and six M5x20 bolts and locknuts (F).

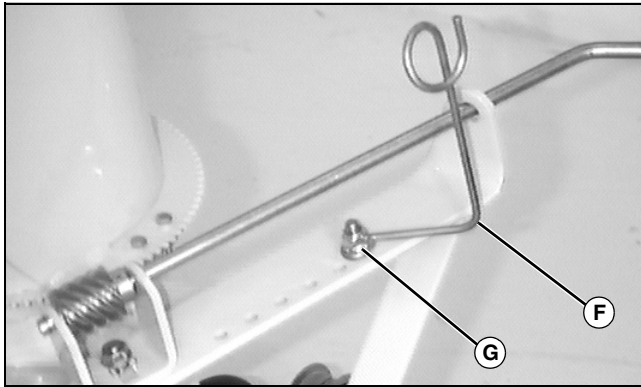


M63873

4. Move worm gear against teeth on discharge chute and

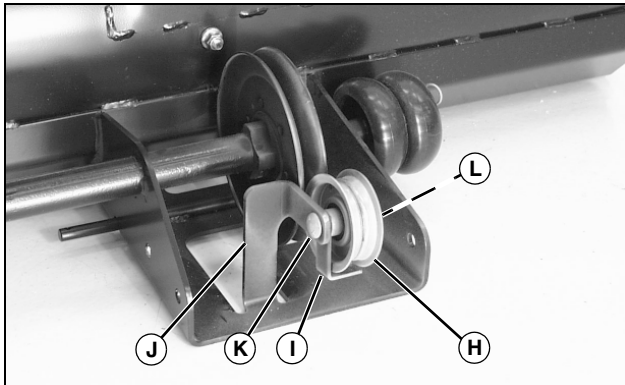
ASSEMBLY

tighten nut (C).



M92985

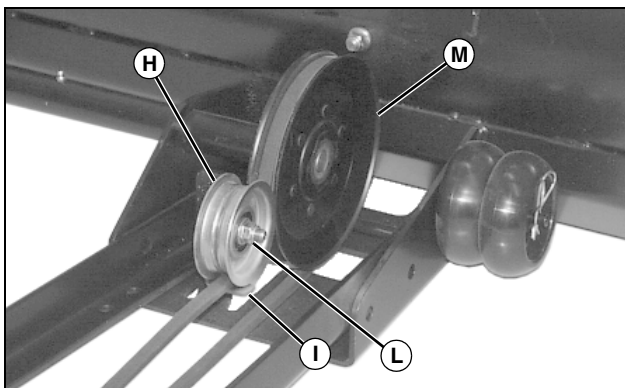
5. Install cable guide (F) on crank support using M8x25 bolt and lock nut (G).



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.

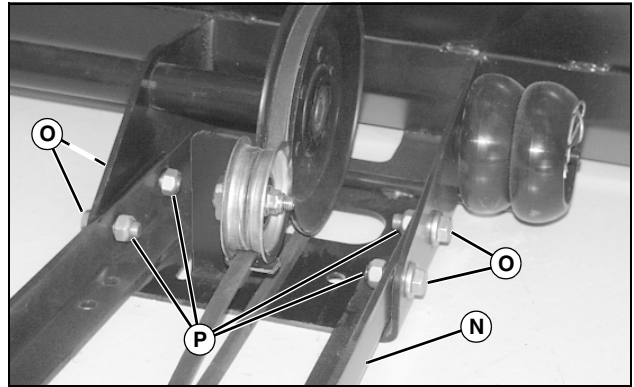
IMPORTANT: Avoid damage! Make sure belt does not touch belt guide.
After tightening nut, idler sheave must rotate freely when not in contact with belt.



M63874

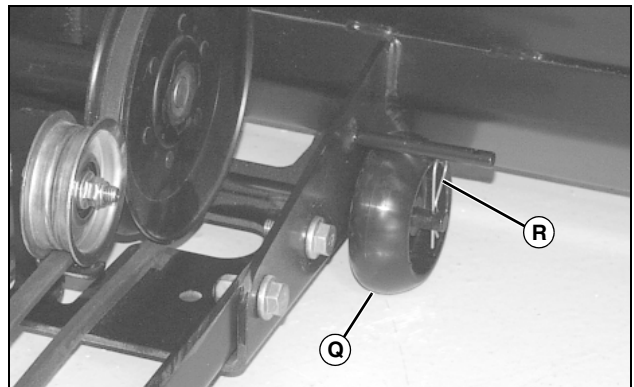
7. Slide welded frame to snowthrower and attach belt to drive sheave (M) and between idler sheave (H) and belt

guide (I). Tighten nut (L).



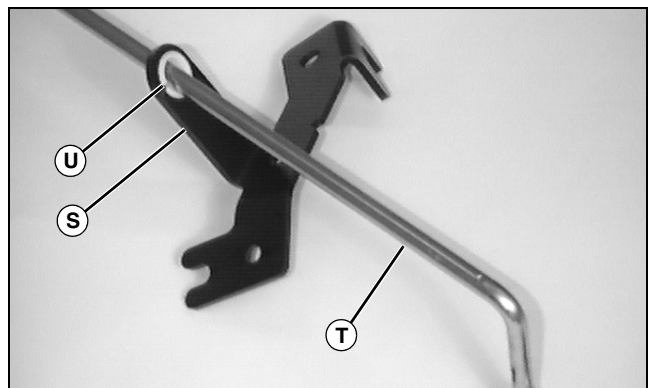
M63876

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

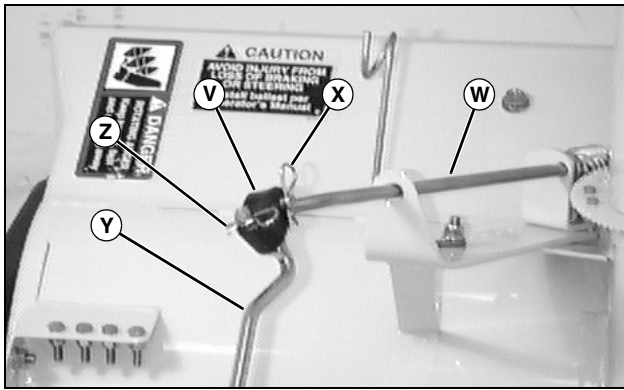
9. Remove wheels (Q) from storage position and install one on each side of snowthrower frame. Fasten with quick-release pin (R).



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.

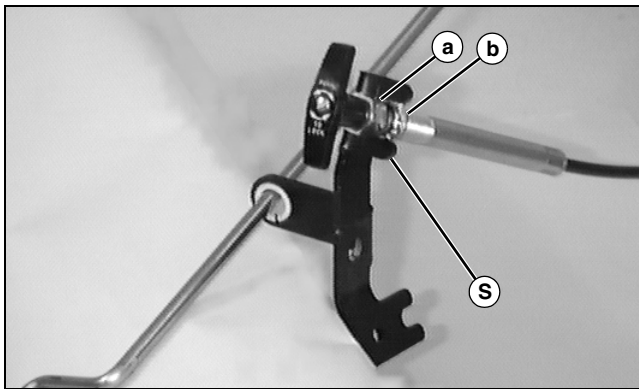
ASSEMBLY



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).

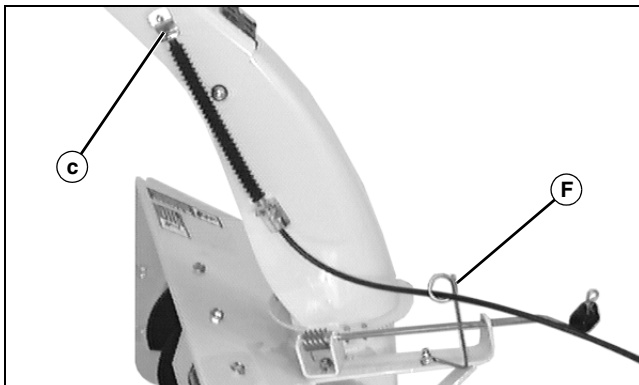


M63828

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.



M92993

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

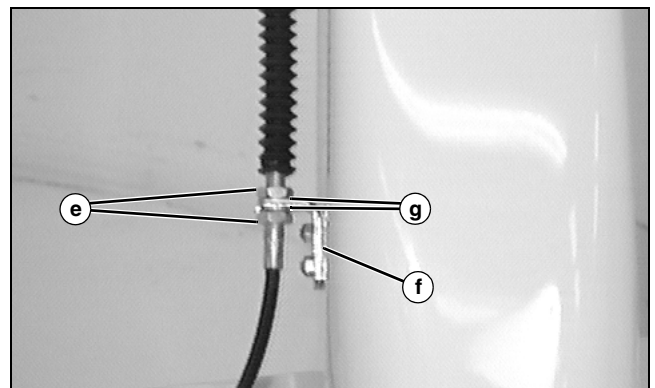
NOTE: Aim spout upward and pull cable end so that cable is fully extended before installing cable on spout bracket.



M92994

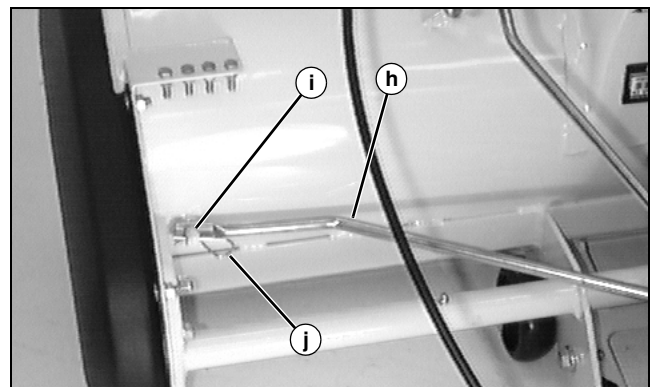
16. Install cable end (c) into upper spout bracket hole and fasten with #10 hex nut (d).

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.



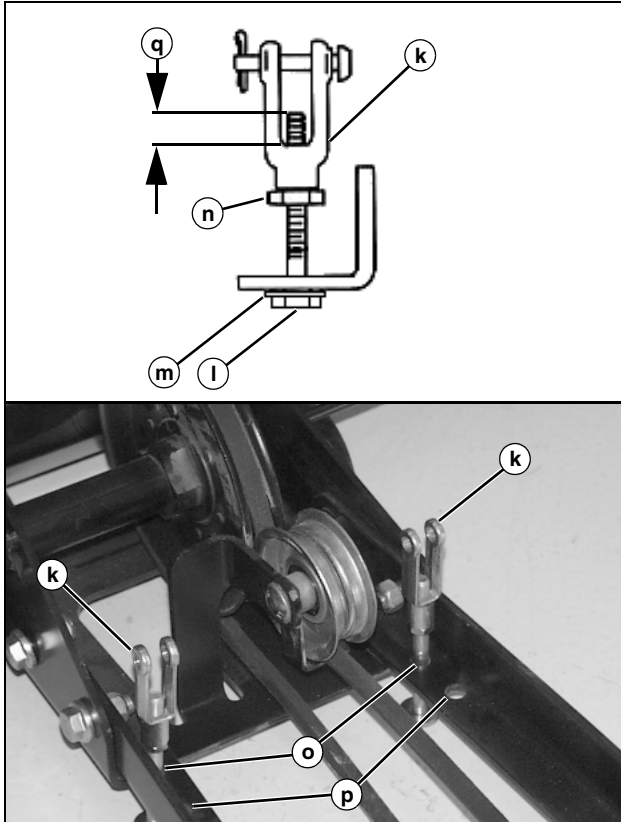
M63820

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

ASSEMBLY

NOTE: LX172, LX173, LX176, LX178, LX186, LX188, LX277AWS, GT242, GT262 and GT275 Only: Install yokes in first hole (o) in snowthrower frame.

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

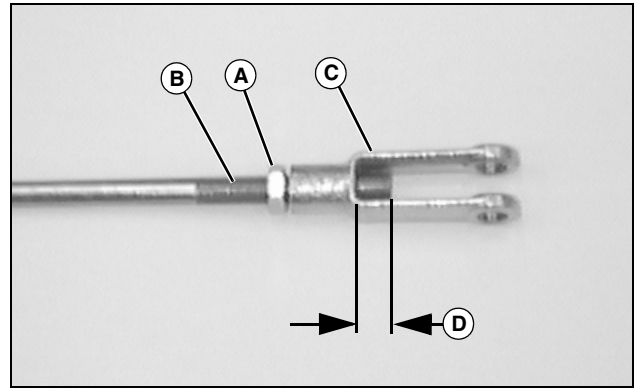


M41413b/M63881

19. Fasten each yoke (k) to hole snowthrower frame with 3/8x2-1/2 in. bolt (l), .406x1x.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 10-12 mm (3/8-1/2 in.).

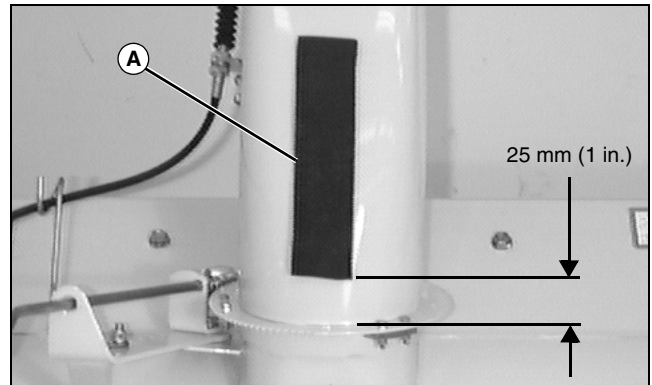
Assemble Yoke to Lift Rod



M92935

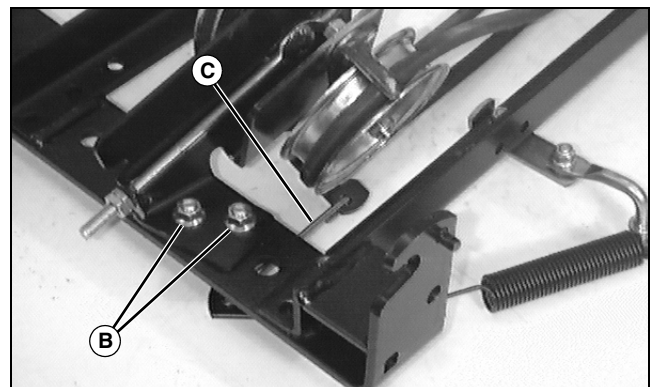
1. Turn M8 jam nut (A) onto lift rod (B).
2. Install yoke (C) on lift rod. Adjust jam nut until bolt exposed inside of yoke, dimension (D), is approximately 10-12 mm (3/8-1/2 in.).

LX172, LX173, LX176, LX178, LX186 and LX188 Only: Install Mounting Kit (BM19407)



M63847

1. Center foam pad (A) on rear of chute, 25 mm (1 in.) above chute base.

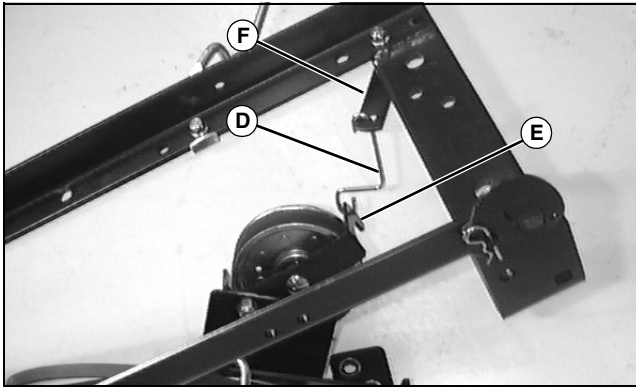


M63848

2. Remove two bolts and nuts (B) from idler support.

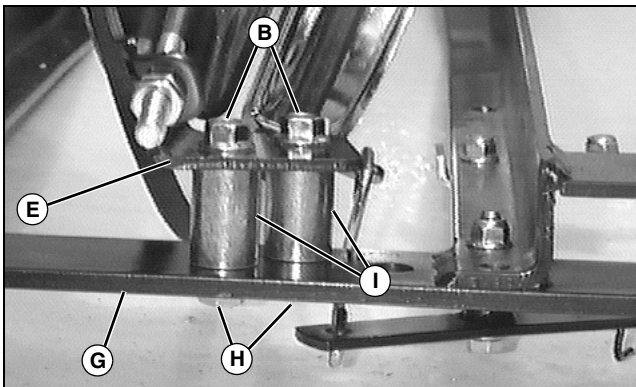
ASSEMBLY

3. Remove idler link (C).



M63489

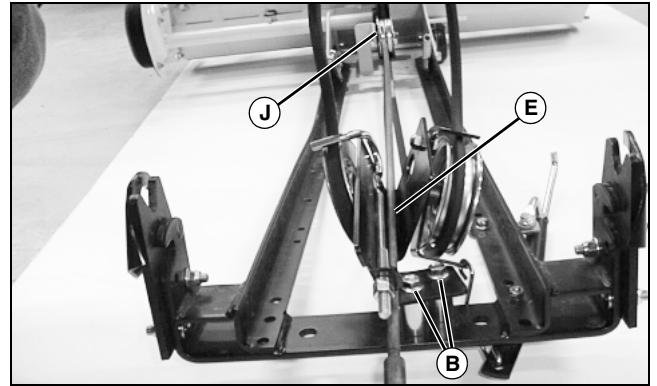
4. Attach new idler link (D) to idler support (E) and idler arm (F).



M63852

5. Fasten idler support (E) to welded frame (G) with two M10x60 bolts (H), spacers (I) and original nuts (B). Do not tighten.

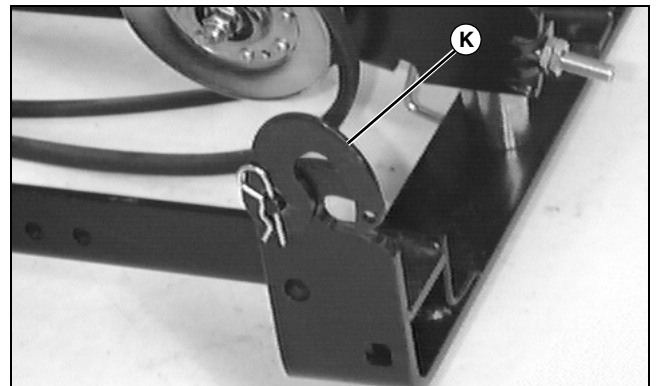
IMPORTANT: Avoid damage! Correct alignment of sheaves is required for long belt life. Make sure that bottom of rear idler support is in alignment with front auger drive sheave.



M96929

Picture Note: A straight edge has been placed between the idler support and front auger drive sheave to show correct alignment.

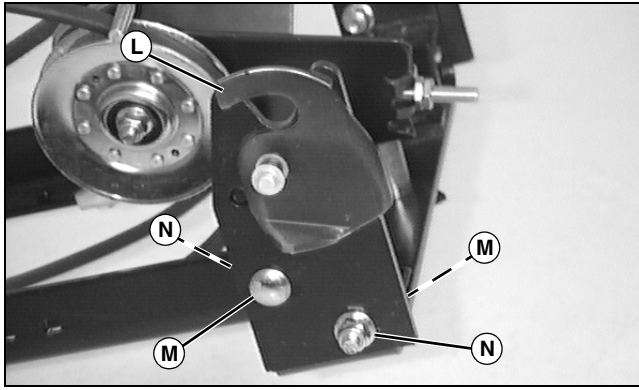
6. Move idler support so that the vee at the bottom (E) is in line with front auger drive sheave (J).
7. Check alignment and tighten nuts (B).



M63853

8. Remove C-shaped latch (K) from each side of welded frame.

ASSEMBLY



M63854

9. Fasten welded latch (L) on each side of welded frame using two M10x35 bolts (M) and M10 locknuts (N).

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 Snowthrower

1. Remove snowthrower.
2. Clean snowthrower with water pressure from a hose.
3. Repair or replace worn, bent, or damaged parts. Tighten loose hardware.
4. Apply paint to areas that need it to prevent rust.
5. Lubricate pivot points with engine oil to prevent rust.
6. Lubricate grease points.
7. Cover snowthrower if stored outdoors.

SPECIFICATIONS

SNOWTHROWER

Overall Length (Snowthrower only):	1.5m (57 in.)
Overall Length (Installed on machine):	2.3m (92 in.)
Overall Length (Installed on machine with rear weights):	2.5m (96.5 in.)
Width Of Cut	1.1m (42 in.)
Overall Width	1.1m (43 1/4 in.)
Height Of Opening	41cm (16 1/4 in.)
Overall Height	94cm (37 in.)
Auger Diameter	30cm (12 in.)
Auger Speed	1000 rpm
Lift Height	10cm (4 in.)
Chute Rotation	216 Degrees
Weight, Approximate	84 kg (185 lb)

(Specifications and design subject to change without notice.)

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NOTES

NOTES

JOHN DEERE QUALITY STATEMENT

John Deere Quality



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

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

Step 1

Refer to your operator's manual

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

Step 2

Contact your dealer

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

Step 3

Call the John Deere Customer Communications Center

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