

**Snowthrower
42-Inch**

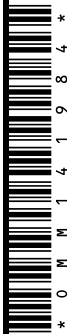
OPERATOR'S MANUAL

OMM141984 I9

North American Version
Litho in U.S.A.



* S E L F *



* 0 M 1 4 1 9 8 4 *

INTRODUCTION

Thank You for Purchasing This Product

We appreciate your business 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.

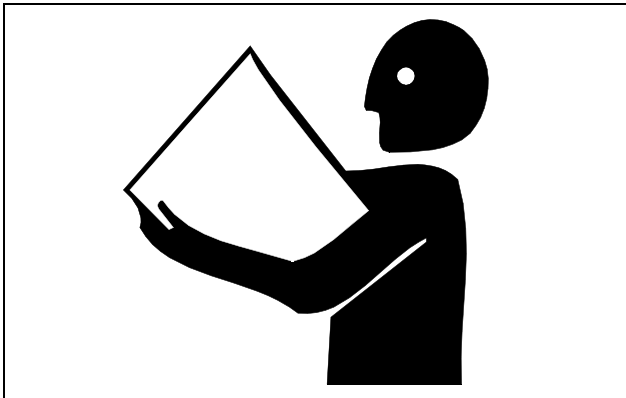
Section in your operator's manual are placed in a specific order to help you understand all the safety messages and learn the controls so you can operate this machine safely. YOU can also use this manual to answer any specific operating or servicing questions. A convenient index located at the end of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

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 highlighted 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 may occur if the hazards or procedures are ignored.

IMPORTANT: Avoid machine 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 of the machine.

PRODUCT IDENTIFICATION

Record Identification Numbers

Snowthrower For Yard and Garden Tractors

42-Inch Serial No. (010001 -)

If you need to contact an Authorized Service Center for information on servicing, always provide the product model and serial number.

You will need to locate the model and serial number for the machine and for the engine of your machine and record the information in the spaces provided below.



DATE OF PURCHASE:

DEALER NAME:

DEALER PHONE:

PRODUCT IDENTIFICATION NUMBER (A):

TABLE OF CONTENTS

Safety	1
Preparing Vehicle	5
Installing	7
Removing	10
Operating	13
Replacement Parts	18
Service	19
Troubleshooting	23
Storage	24
Assembly	25
Specifications	29
Index	30

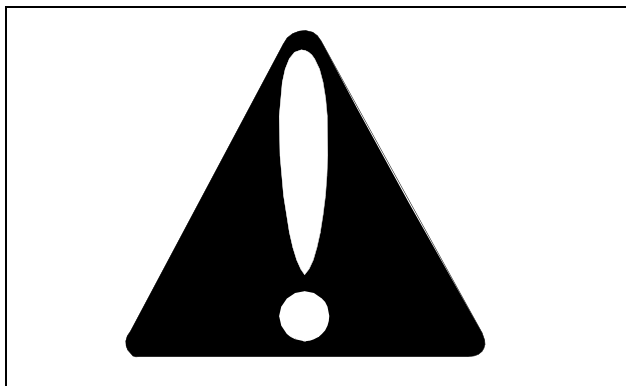
All information, illustrations and specifications in this manual are based on the latest information at the time of publication. The right is reserved to make changes at any time without notice.

COPYRIGHT© 1999
Deere & Co.
John Deere Worldwide Commercial and
Consumer Equipment Division
Horicon, WI
All rights reserved
Previous Editions
COPYRIGHT©

English

SAFETY

Understanding The Machine Safety Labels

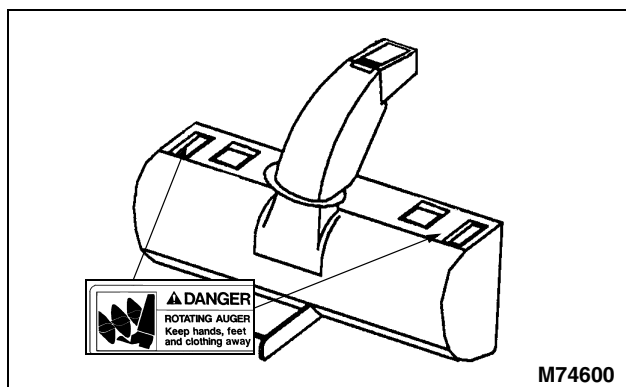


The machine safety labels shown in this section are placed in important areas on your machine to draw attention to potential safety hazards.

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

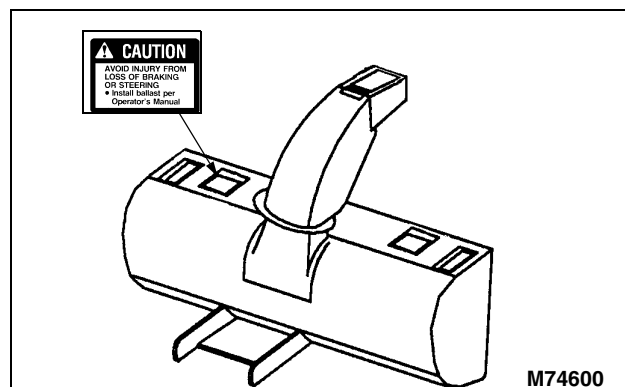
The operator's manual also explains any potential safety hazards whenever necessary in special safety messages that are identified with the word, CAUTION, and the safety-alert symbol, (▲).

DANGER: ROTATING AUGER



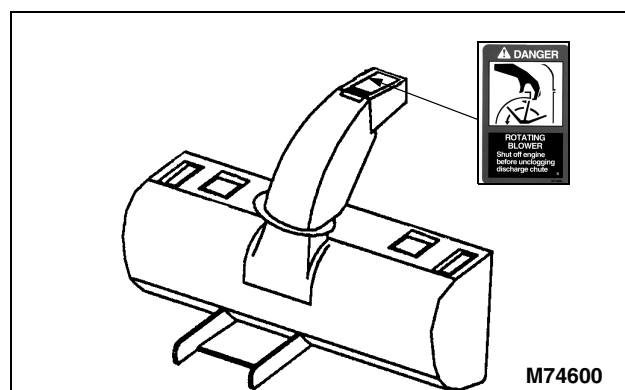
Keep hands, feet and clothing away.

CAUTION: AVOID INJURY FROM LOSS OF BRAKING OR STEERING



- Install ballast per Operator's Manual

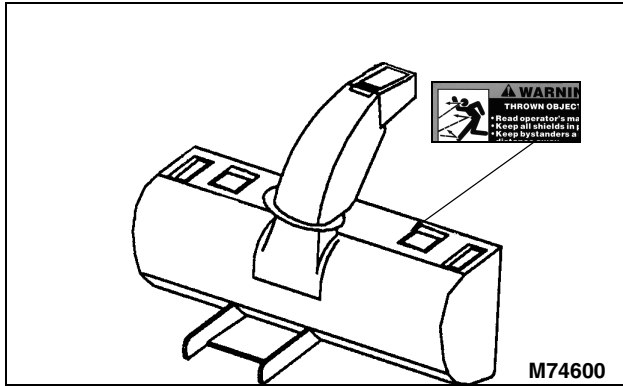
DANGER: ROTATING BLOWER



Shut off engine before unclogging discharge chute.

SAFETY

WARNING: THROWN OBJECTS

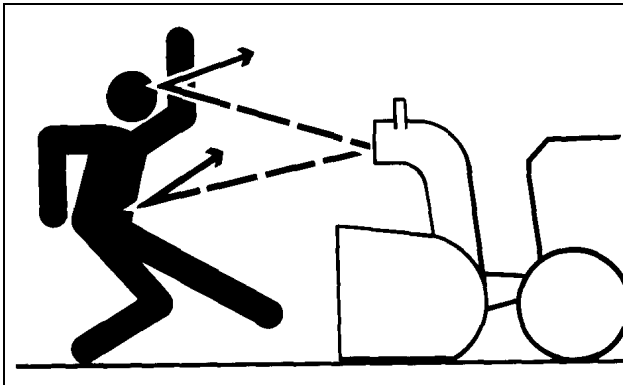


- Read Operator's Manual.
- Keep all shields in place.
- Keep bystanders a safe distance away.

Certification Label

The OPEI label on your snowthrower indicates that this model has been certified by an independent laboratory for compliance with American National Standard B-71.3, "Safety Specifications" for Snowthrowers.

Operate Safely



- Check vehicle brake action before you operate. Adjust or service brakes as necessary.
- Inspect machine before you operate. Be sure hardware is tight. Repair or replace damaged badly worn, or missing parts. Be sure guards and shields are in good condition and fastened in place. Make any necessary adjustments before you operate.
- Clear work area of objects that might be thrown. Keep people and pets out of the work area. Stop machine if anyone enters the area.

- If you hit an object, stop the machine and inspect it. Make repairs before you operate. Keep machine properly maintained and in good working order.
- DO NOT leave machine unattended when it is running.
- Only operate during daylight or with good artificial light.
- Look carefully behind tractor before you back up.
- DO NOT let anyone, especially children, ride on machine or vehicle. 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 wear radio or music headphones while operating the machine. Safe operation requires your full attention.
- DO NOT let children or an untrained person operate machine.
- Be alert for traffic when crossing or working near roadways.
- Be alert. DO NOT operate Snowthrower when you are tired or ill or under the influence of drugs or alcohol.
- DO NOT operate tractor at high speeds.
- Do not throw snow toward bystanders, buildings, or automobiles.
- Throw snow downwind, if possible.
- Clean snowthrower after you use it.
- Use OPTIONAL drift blade to help cut through drifted snow.
- Operate snowthrower at full throttle and a safe travel speed.
- Be extremely careful if you must clear snow from a gravel surface.
- Operate slowly and carefully on slopes and in sharp turns.
- DO NOT operate near edge of ditch or bank. Avoid holes, rocks, and roots. Be alert for hidden hazards.
- Drive up and down-not across slopes.

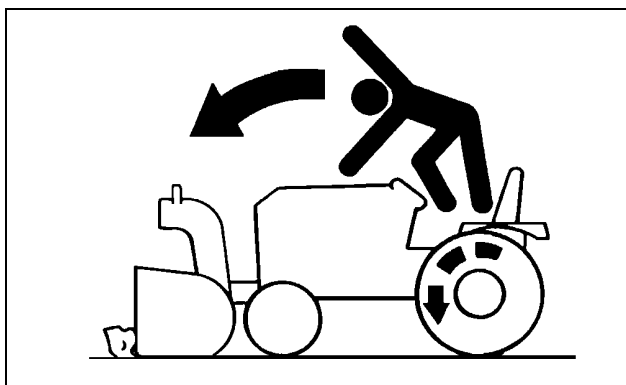
SAFETY

Avoid Injury from Moving Parts



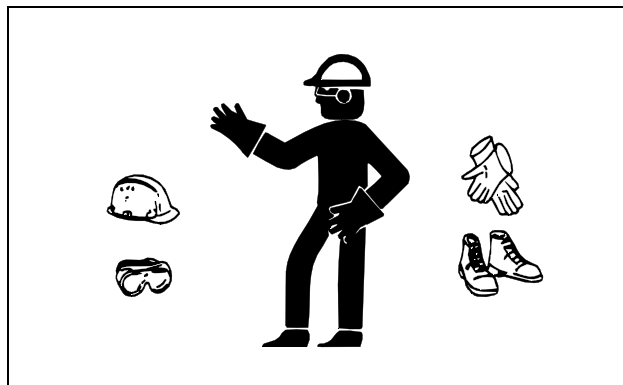
- Keep hands, feet and clothing away from snowthrower and discharge chute when auger is turning.
- Stop auger when you are not throwing snow.
- Stop vehicle engine before you unplug, repair, or adjust snowthrower.

Avoid Injury from Hitting Obstructions



- Raise snowthrower when you drive between jobs.
- Slow down when you remove snow. Be cautious on slopes, when you make turns or when close to buildings or trees.

Wear Appropriate Clothing



- Wear close fitting clothing and safety equipment appropriate for the job.
- Loud noise can cause impairment or loss of hearing, wear a suitable protective device such as earplugs.
- Do not wear radio or music headphones while servicing the machine. Safe servicing requires your full attention.

Practice Safe Maintenance



- Understand service procedure before doing work. Keep area clean and dry.
- Never lubricate, service, or adjust machine while it is moving. Keep safety devices in place and in working condition. Keep hardware tight.
- To prevent them from getting caught, keep hands, feet, clothing, jewelry, and long hair away from any moving parts.
- Before servicing machine, lower it to the ground. Disengage all power and stop the vehicle engine. Move hydraulic lift levers back and forth to relieve pressure. Lock vehicle park brake and remove the key. Let engine cool.
- Securely support any machine elements that must be raised for service work.
- Never run vehicle engine unless park brake is locked.
- Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts.

SAFETY

Remove any buildup of grease, oil, or debris.

- Unauthorized modifications to the machine may impair its function and safety.

Stay Clear of Rotating Drivelines



Entanglement in rotating driveline can cause serious injury or death:

- STOP the engine and be sure PTO driveline is stopped before getting near it.

PREPARING VEHICLE

Tractor Attachments Recommended



CAUTION: Avoid injury or machine damage:

- Proper ballasting is **RECOMMENDED** for safe operation of your snowthrower and tractor.
- When the snowthrower is removed, you **MUST** also remove any weights that were added to the tractor.

NOTE: Before you attach snowthrower, **REMOVE MOWER DECK** from tractor. (See *Removing and Storing Mower* section in your *Tractor Operator's Manual*.)

- It is **RECOMMENDED** that the following weights be used:
–ONE 34 kg (75 lb.) Wheel Weight, one on each side. See your Authorized Service Center.
- **REAR TIRE CHAINS** can be added to help improve traction even more. See your Authorized Service Center.

Check Tire Pressure

IMPORTANT: Avoid machine damage! **DO NOT** use more than maximum tire pressure shown on sidewall of tire.

NOTE: See your *Tractor Operator's Manual* for correct tire pressure.

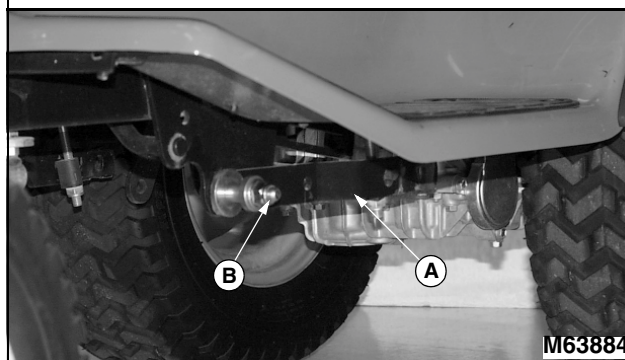
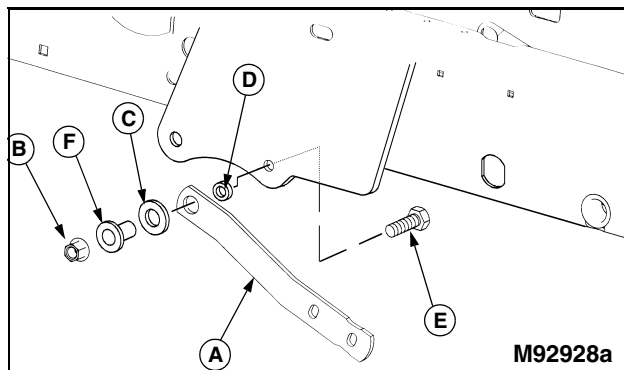
Check tire pressure with an accurate gauge.

Add or remove air, if necessary.

Install Pivot Bolts on Draft Arms

IMPORTANT: Avoid machine damage! Spacer (D) must stay in draft arm. Draft arm must pivot freely.

NOTE: If necessary, two extra washers from Bag of Parts can be used, one on each side, to reduce side play due to welding tolerances.

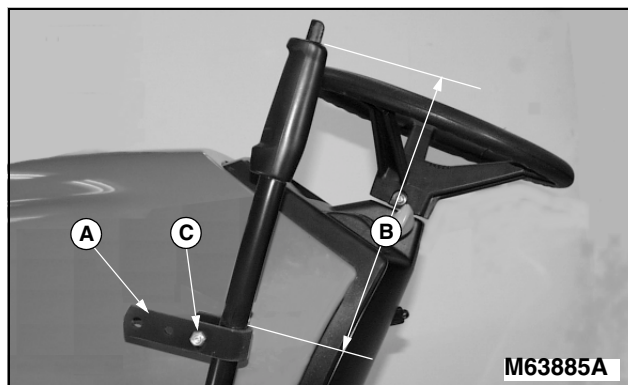


1. Change hardware on both draft arms:

- Reuse original hardware from each draft arm (A): Flange nut (B), thick washer (C), and spacer (D).
- Discard original bolt from each draft arm and replace with M12 x 65 bolt (E) and flanged spacer (F) from bag of parts.

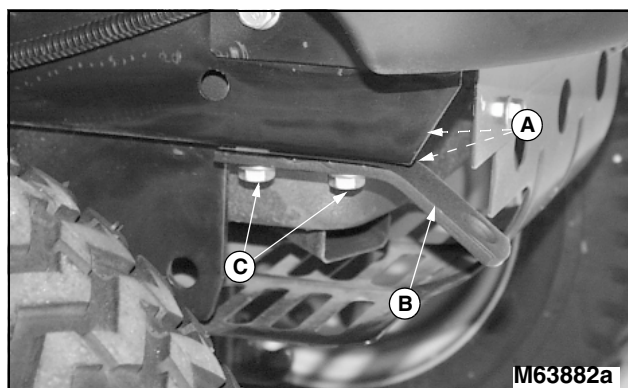
PREPARING VEHICLE

Install J-Bracket on Lift Lever



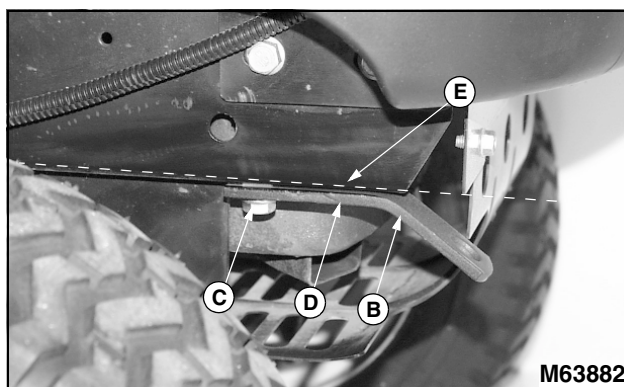
1. Install J-bracket (A) 250 mm (10 in.) from top of lever (B) with long end to the outside as shown.
2. Fasten bracket with M8 carriage bolt (C) and lock nut. Tighten nut.

Install Sway Bar Bracket



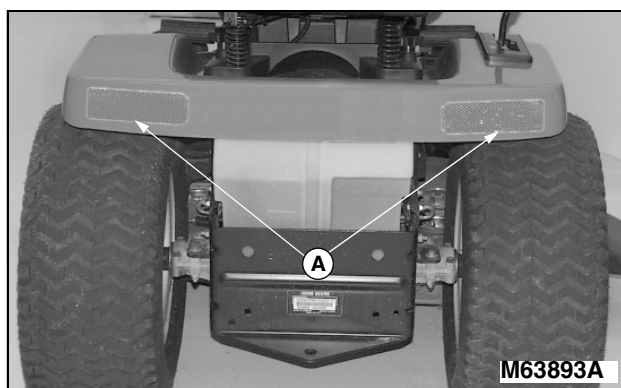
1. Slide two M8 clamp-on nuts (A) over holes on right-front side of tractor frame.
2. Align holes in sway bar bracket (B) with holes in bottom of frame and fasten with two M8 x 25 bolts (C). Tighten bolts.
3. Follow next procedure if there is only ONE hole in the tractor frame.

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



- a. Install M8 clamp-on nut and M8 x 25 bolt (C) in first hole.
- b. Move sway bar bracket so that it is flush with edge (E) of tractor frame. Tighten bolt (C).
- c. Drill hole (D) into tractor frame using second hole of bracket as template.
- d. Loosen bolt (C) and install M8 clamp-on nut and M8 x 25 bolt into drilled hole and bracket. Tighten both bolts.

Install Reflective Tape



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

INSTALLING

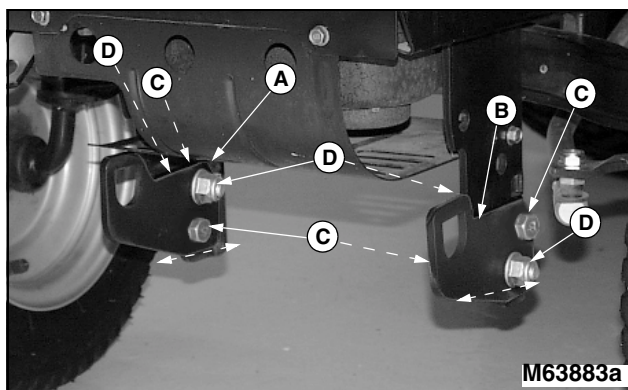
Park Vehicle Safely

- Stop vehicle on a level surface, not on a slope.
- Move vehicle in alignment with snowthrower.
- STOP the engine.
- Engage the park brake.
- Remove the key.
- Before you leave the operator's seat, wait for engine and all moving parts to STOP.

Install Front Brackets

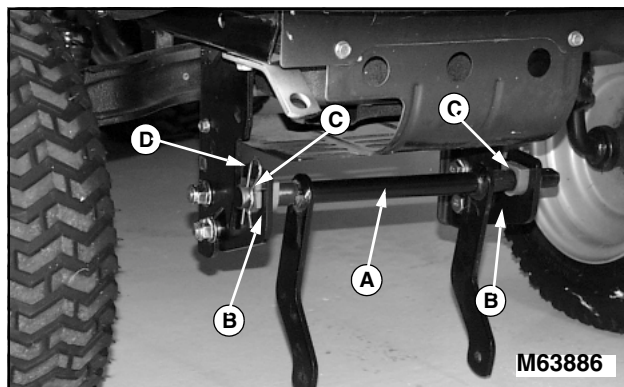
NOTE: RIGHT SIDE: Bracket (A) should be on the INSIDE.

LEFT SIDE: Bracket (B) should be on the OUTSIDE.

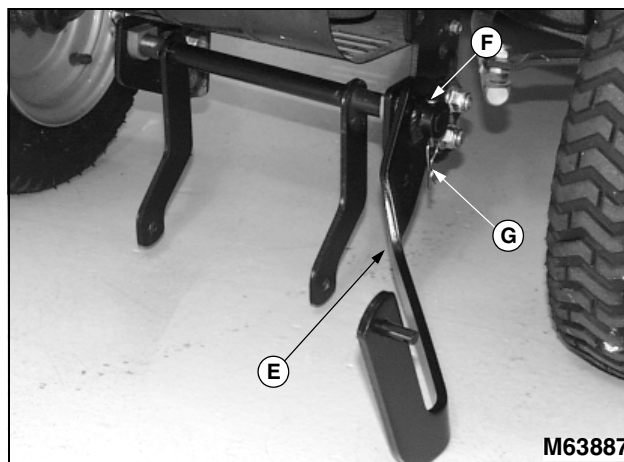


1. Fasten each bracket with two M12 hex head bolts (C) and two M12 hex flange lock nuts (D). Bolt heads should be on the INSIDE for BOTTOM bolts and on the OUTSIDE for TOP bolts.
2. Move brackets so that bottom is level with tractor frame. TIGHTEN nuts.

Install Manual Lift Assembly

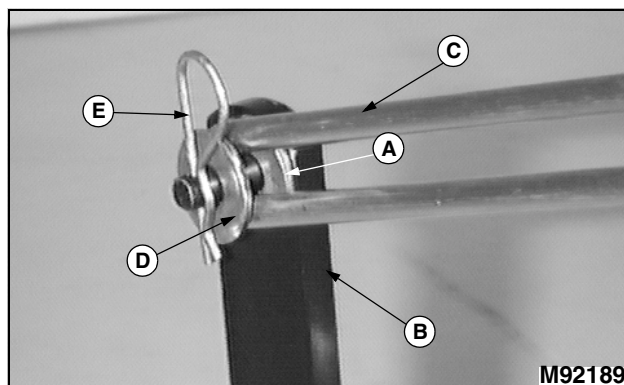


1. Slide left side of front lift shaft (A) and then right side into "D" shaped holes of front brackets (B).
2. Slide "D" shaped bearings (C) onto each front bracket.
3. Secure right side with medium spring locking pin (D).



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

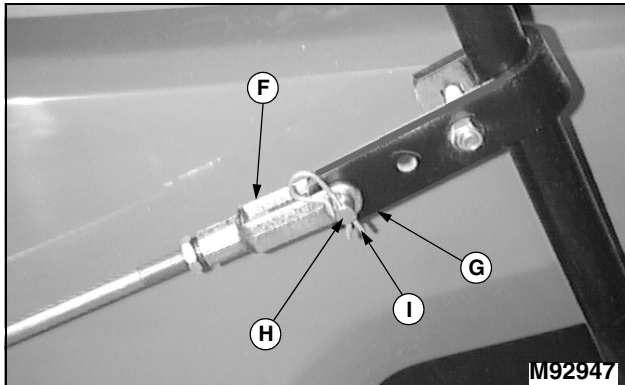
Install Lift Rod



1. Slide one M10 washer (A) on end of welded lift arm (B).

INSTALLING

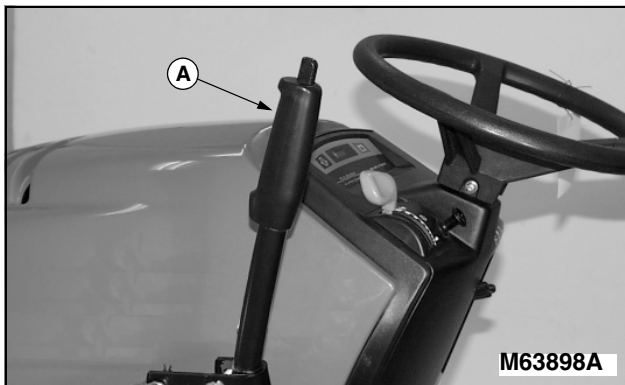
2. Install lift rod (C) on welded lift arm.
3. Slide second M10 washer (D) on welded lift arm and fasten with small spring locking pin (E).



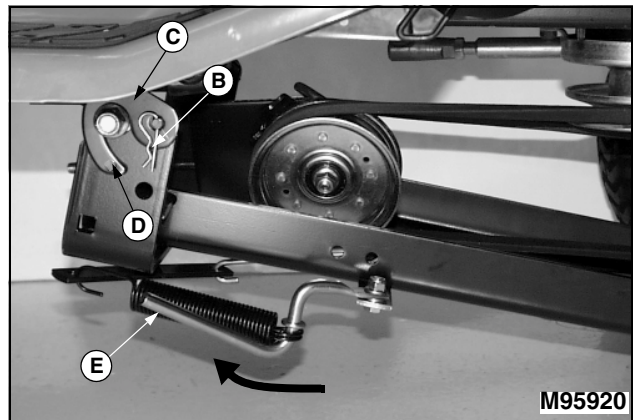
4. Attach lift rod yoke (F) to first hole of J-Bracket (G) with medium drilled pin (H) and secure with small spring locking pin (I).

Installing Snowthrower

1. Align tractor with snowthrower frame.
2. STOP engine and LOCK park brake.



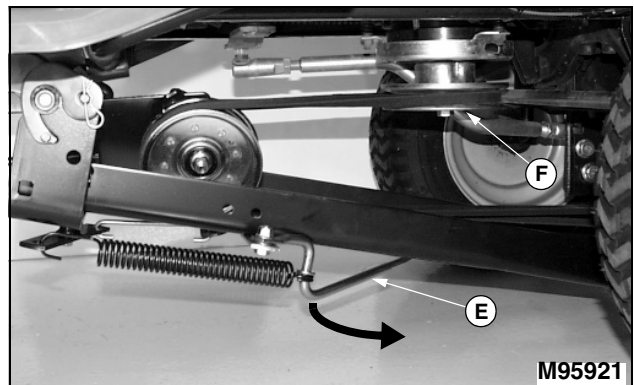
3. Pull lift lever (A) all the way back to raise front lift shaft.
4. Remove spring pin and drilled pin from C-shaped latch located on both sides of snowthrower frame and let latches swing open.
5. Slide snowthrower frame under tractor.



6. Remove spring locking pin (B) and C-shaped latch (C), from RIGHT side only, to allow easy installation of snowthrower frame.

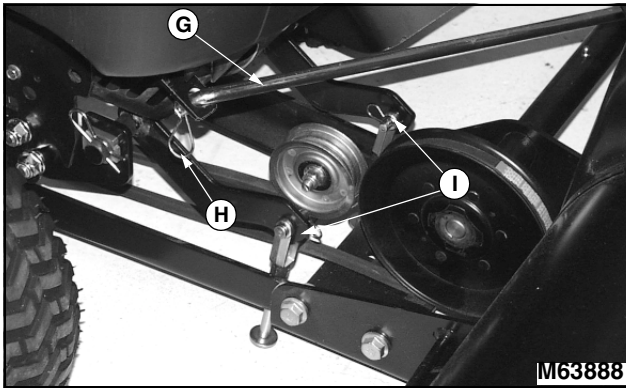
NOTE: Use two extra M13x37x3 washers from Bag of Parts if C-shaped latch (C) does not pivot freely when frame is pulled to one side.

7. Attach both sides of rear snowthrower frame to draft arm pivot bolts using C-shaped latch (C). Make sure latch pivots freely.
8. Fasten C-shaped latch (C) and original spring locking pin (B) to right side.
9. Install original drilled pin (D) through hole in latch and snowthrower frame. Fasten with original spring locking pin.



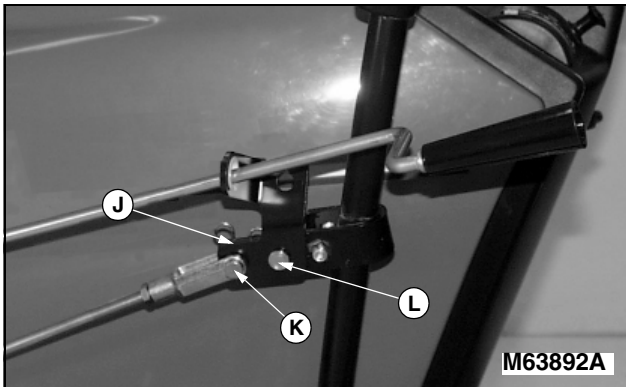
10. Pivot belt tightener lever (E) to the rear to LOOSEN belt.
11. Install belt on tractor drive sheave (F).
12. Pivot tightening lever (D) forward and lock under snowthrower frame to tighten belt.
13. Check belt tension.
14. Push lift lever all the way forward to LOWER front lift shaft.

INSTALLING



15. Fasten sway bar (G) to sway bar bracket with large spring locking pin (H).

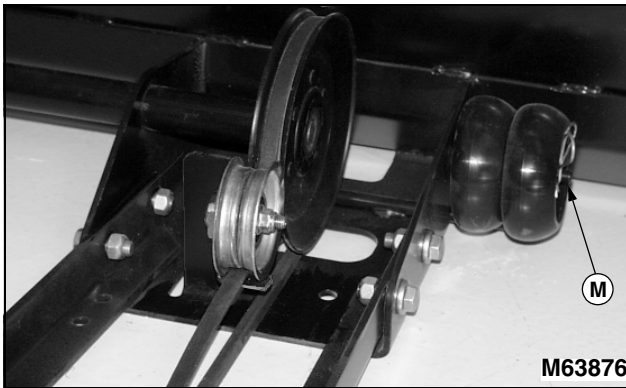
16. Fasten two yokes (I) to front lift shaft with medium drilled pin and small spring locking pin.



17. Install slotted end of chute control bracket (J) over drilled pin (K) and fasten bracket to J-bracket with small drilled pin and small spring locking pin (L).

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

18. Pull lift lever all the way back and lock snowthrower in the RAISED position.



19. Move wheels to the storage position and secure with original spring locking pins (M).

REMOVING

Park Vehicle Safely

- Stop vehicle on a level surface, not on a slope.
- Put blocks or a board under snowthrower.
- LOWER snowthrower onto blocks or board.
- STOP the engine.
- Engage the park brake.
- Remove the key.
- Before you leave the operator's seat, wait for engine and all moving parts to STOP.

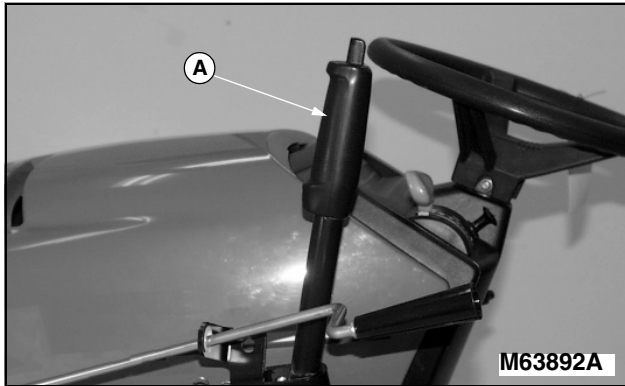
Removing Snowthrower



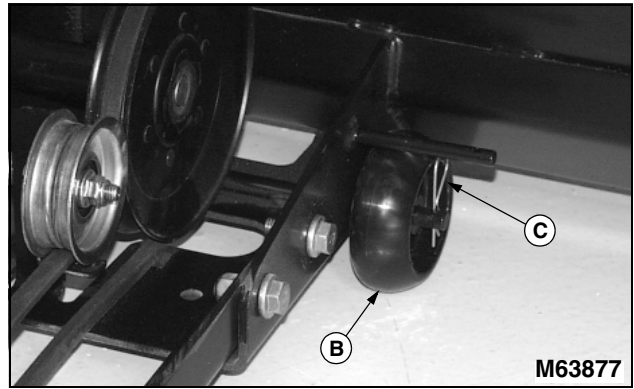
CAUTION: Avoid injury! Snowthrower Assembly is heavy.

To prevent possible bodily injury: Make sure hands and arms are not under frame assembly when removing frame assembly from tractor.

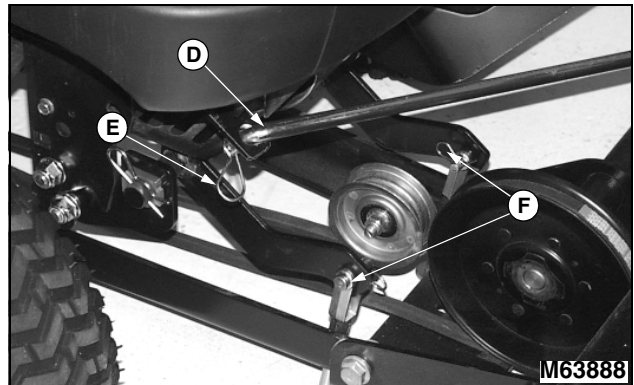
NOTE: Install all drilled pins and spring locking pins in snowthrower assembly for STORAGE.



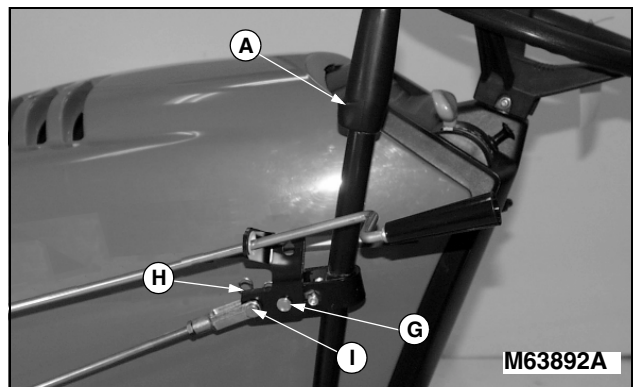
1. Pull lift lever (A) all the way back and lock snowthrower in the RAISED position.



2. Remove wheels (B) from storage position and install one on each side of snowthrower frame. Fasten with spring locking pin (C).
3. Lower snowthrower to the ground.

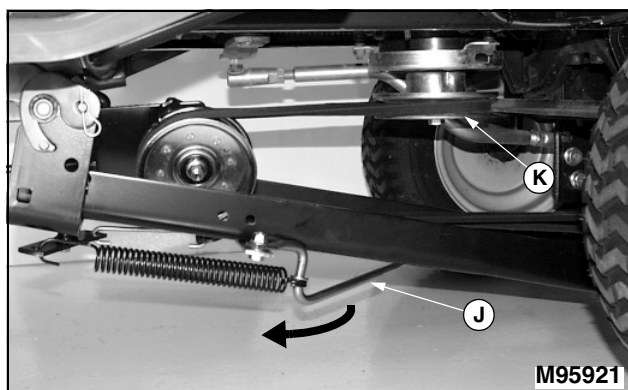


4. Remove sway bar (D) from tractor bracket by removing spring locking pin (E).
5. Remove yokes (F) from front lift links by removing drilled pins and spring locking pins.



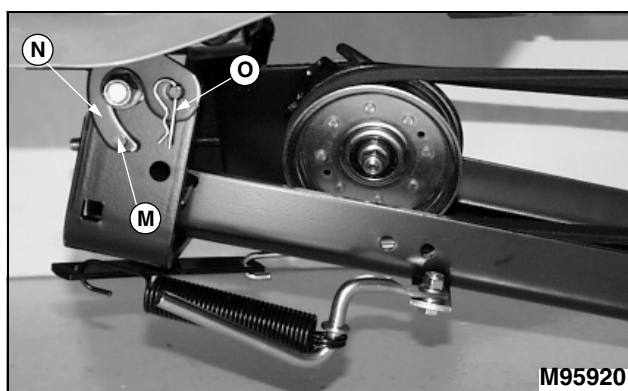
6. Pull lift lever (A) all the way back to raise front lift shaft.
7. Remove spring locking pin and drilled pin (G) from chute control bracket (H). Remove slotted end of bracket from drilled pin (I).

REMOVING



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

9. Remove belt from tractor drive sheave (K).



10. Remove drilled pin (M) and spring locking pin and disconnect C-shaped latch (N), one on each side, from draft arm pivot bolt.

11. Remove spring locking pin (O) and C-shaped latch (N), from RIGHT side, to allow easy removal of snowthrower frame.

12. Slide snowthrower out from under tractor.



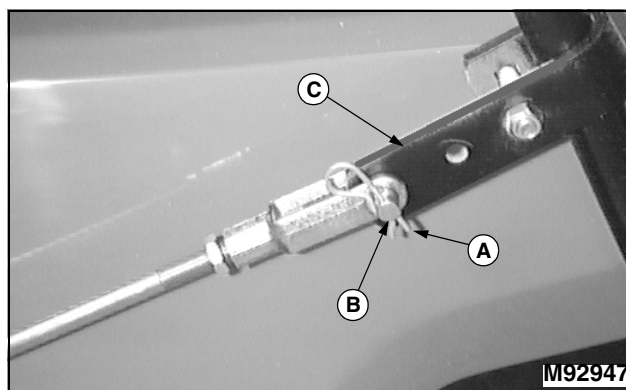
CAUTION: Avoid injury due to unnecessary ballast..

When the snowthrower is removed, you MUST also remove any weights that were added to the tractor.

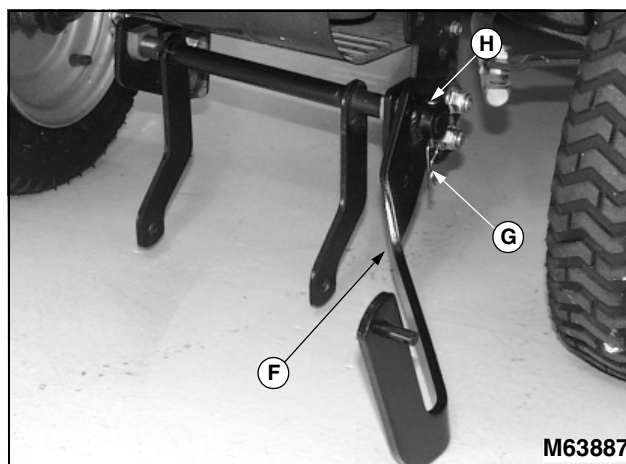
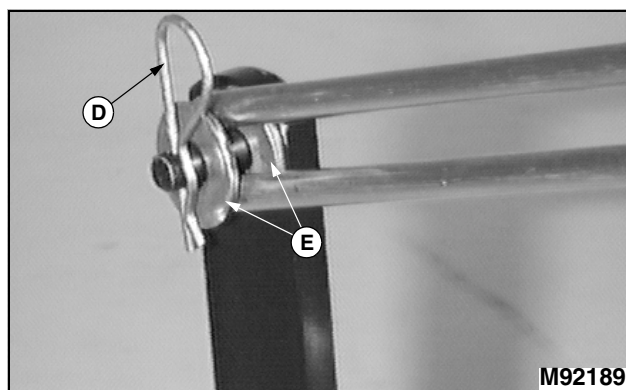
13. Remove any weights that were installed when preparing the tractor.

Remove Manual Lift Assembly

NOTE: Install all drilled pins and spring locking pins in lift kit assembly for STORAGE.

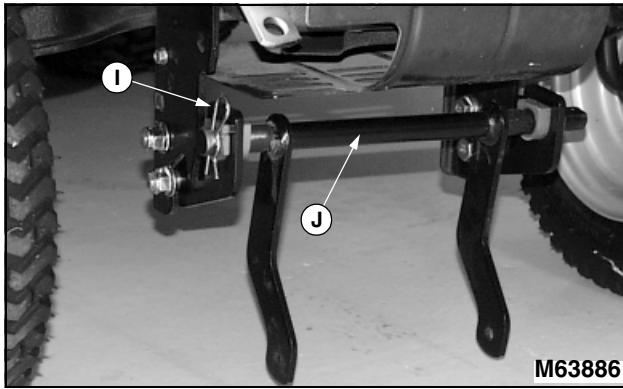


1. Remove lift rod by removing spring locking pin (A) and drilled pin (B) from J-bracket (C) and spring locking pin (D) and two washers (E) from welded lift arm.



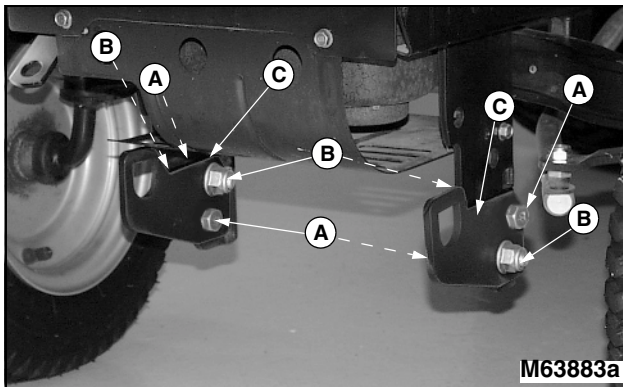
2. Remove welded lift arm (F) from right side of front lift shaft by removing spring locking pin (G) and drilled pin (H).

REMOVING



3. Remove spring locking pin (I) and slide “D” shaped bearings and front lift shaft (J) from front tractor brackets.

Remove Front Brackets



- Remove four hex head bolts (A) and lock nuts (B) and remove front brackets (C) from tractor frame.
- Put bolts and lock nuts in brackets for storage.

OPERATING

Before Operating Snowthrower

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

Daily Operating Checklist

- ☐ Lubricate worm gear.
- ☐ Adjust belt tension.

Snowthrowing Tips

Install tire chains and rear weights on tractor.

Adjust runners before you clear snow.

Operate snowthrower at full throttle.

Operate snowthrower at safe travel speed.

Slow down:

- On slopes.
- When you make turns.
- When you throw snow close to buildings or trees.

Raise snowthrower when you drive between jobs.

Use optional drift blade to help cut through drifted snow.

Throw snow downwind, if possible.

If you hit an object:

- STOP snowthrower immediately.
- Fix damage before you use snowthrower again.

Before you clean or unplug snowthrower:

- Put PTO switch in OFF position.
- STOP engine.
- LOCK park brake.
- Wait for ALL moving parts to STOP.

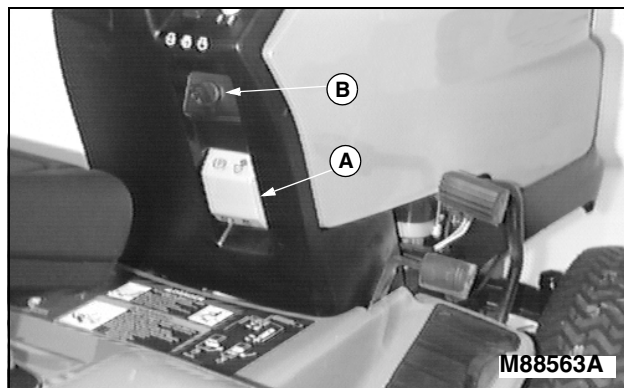
Clean snowthrower after you use it.

Stopping Tractor and Snowthrower

IMPORTANT: Avoid machine damage! Lower snowthrower to the ground first and then open hood carefully.

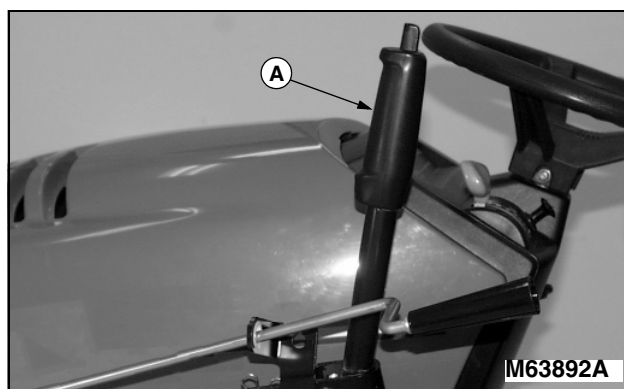
When stopping tractor, do the following:

1. Put transmission in NEUTRAL position.
2. Lower snowthrower to ground.
3. STOP engine.



4. LOCK park brake (A).
5. Remove key (B).

Raising and Lowering Snowthrower



To RAISE snowthrower: Pull lift lever (A) all the way back.

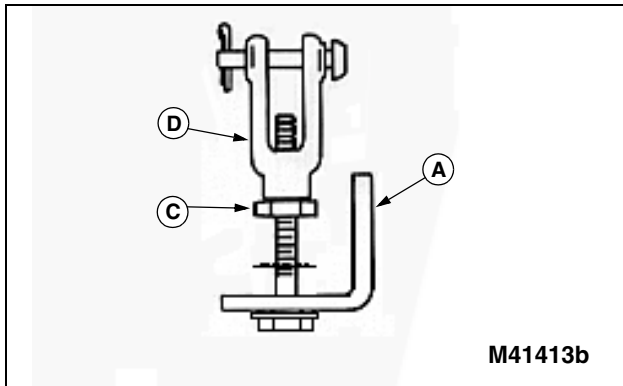
To LOWER snowthrower: Push lift lever (A) all the way forward to latch into LOCK-OUT position.

OPERATING

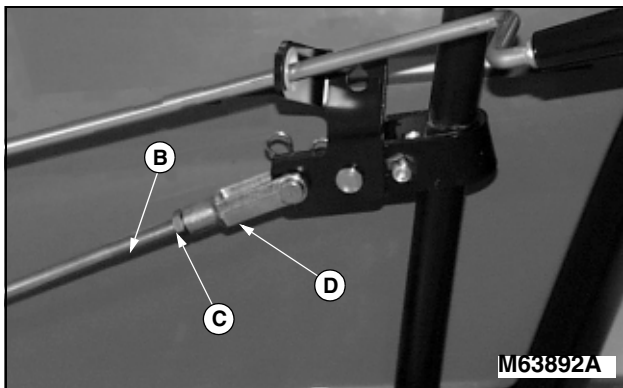
Adjusting Lift Height

CAUTION: Avoid injury! Before adjusting lift height: **STOP** engine. **LOCK** park brake. Wait for auger to **STOP**.

Snowthrower Lift can be adjusted by turning two yokes on snowthrower frame (A) OR yoke attached to lift rod (B).



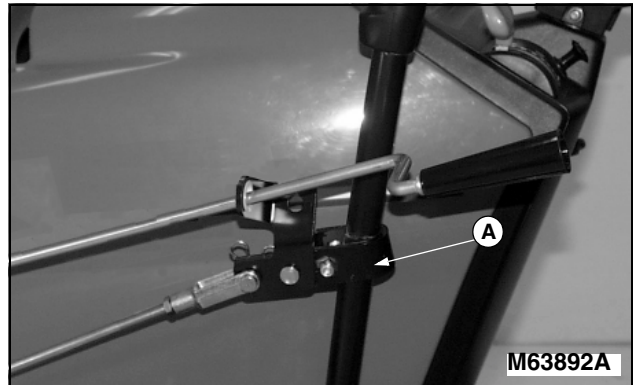
- To **INCREASE** lift height: Loosen jam nut (C) and turn yoke (D) clockwise. Tighten nut.



- To **DECREASE** lift height: Loosen jam nut (C) and turn yoke (D) counterclockwise. Tighten nut.

Lift snowthrower to check adjustment and make further adjustments, if necessary.

Adjusting Lift Effort



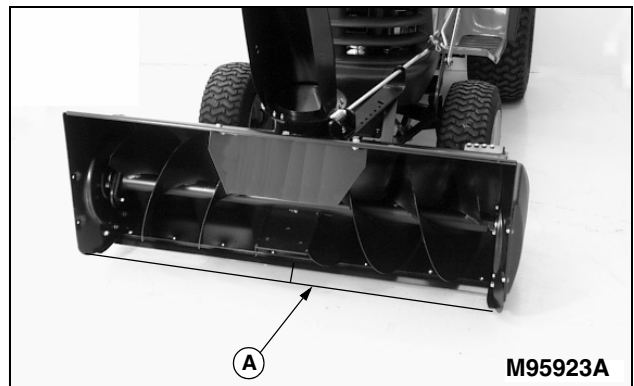
Lift effort can be reduced by moving J-bracket (A) lower on lift handle of tractor. However, this will reduce amount of lift height as well as decrease amount of distance snowthrower will go below grade.

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

Leveling Snowthrower

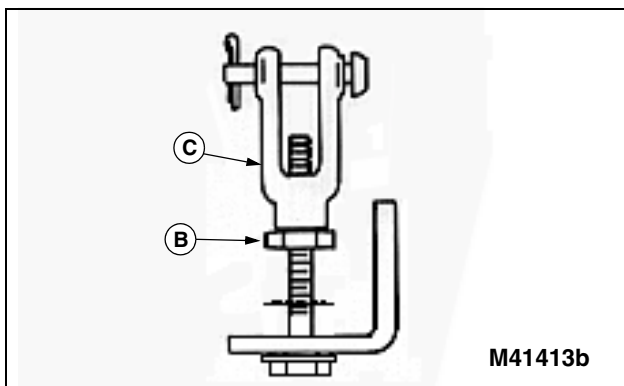
CAUTION: Avoid injury! Before leveling snowthrower:
STOP engine. **LOCK** park brake. Wait for auger to **STOP**.

1. Pull lift lever back to **RAISE** snowthrower fully.



2. Measure distance from each end of scraper blade to floor. Each end should be approximately 102 mm (4 in.) (A) from floor when snowthrower is **FULLY RAISED**.
3. Adjust yokes on snowthrower frame if necessary:

OPERATING



- Loosen jam nut (B) on yoke (C) on LOW side of snowthrower.
- Adjust yoke until snowthrower is level.
- Tighten jam nut.
- Adjust yokes as needed.

Adjusting Scraper Blade Clearance

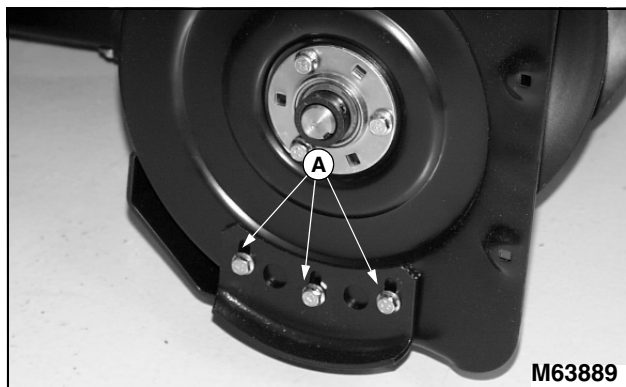


CAUTION: Avoid injury! Before adjusting scraper blade:

STOP engine. LOCK park brake. Wait for auger to STOP.

1. Lower snowthrower to the ground.
2. Adjust runners:

For clearing snow from a SMOOTH surface:



- Loosen cap screws (A).
- Adjust runners so scraper blade is 2–3 mm (1/16–1/8 in.) above surface.
- Tighten cap screws.

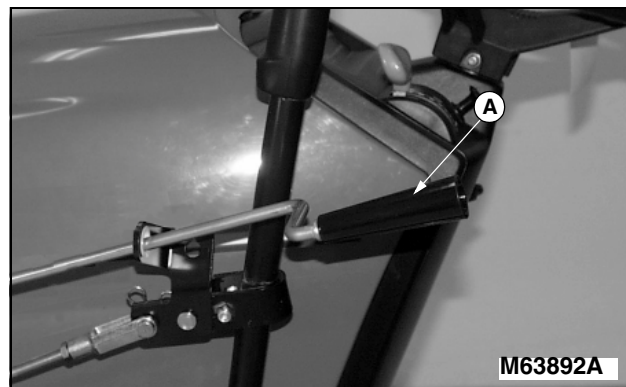
For clearing snow from a ROUGH or a GRAVEL surface:

- Adjust runners for more clearance.

- Check Adjustment: Scraper blade should clear away maximum amount of snow without picking up rocks.

Adjusting Chute

1. Chute will turn 108° to each side.



2. Turn handle (A) to move chute to desired position.

Adjusting Spout



CAUTION: Avoid injury! Before adjusting spout::

STOP engine. LOCK park brake. Wait for auger to STOP.

NOTE: Spout MUST BE tight enough to stay in position when snow from auger hits it, but also loose enough to move by hand.



Grasp spout (A) and move to desired position. You should feel resistance.

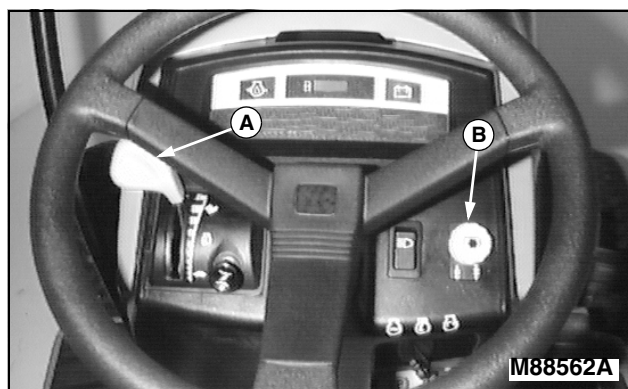
OPERATING

Operating Snowthrower

CAUTION: Avoid injury due to thrown objects. Before you operate snowthrower:
Clear area of bystanders and pick up objects which may be thrown by snowthrower.

IMPORTANT: Avoid machine damage to clutch. DO NOT engage PTO with throttle in the FAST position.

1. Start engine.



2. Put throttle lever (A) at ONE-FOURTH position.
3. Lower snowthrower to the ground.
4. Pull PTO knob (B) UP to ENGAGE snowthrower.

IMPORTANT: Avoid machine damage! For best snowthrower and engine performance, operate at a FAST engine speed.

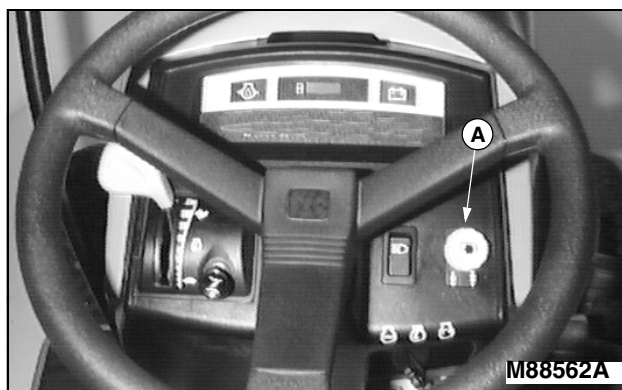
5. Move throttle lever to the FAST (🐾) position.
6. UNLOCK the park brake.

Inspect, Unplug, or Park Snowthrower Safely

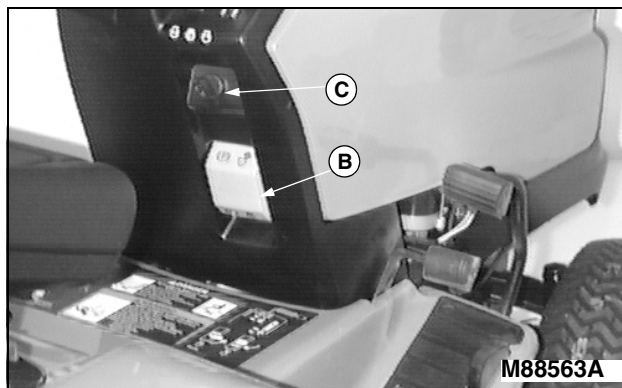


CAUTION: Avoid injury! If you get off operator's seat when engine and snowthrower are running, engine and snowthrower MUST STOP. If not, have electrical system checked.

1. STOP tractor.



2. Push PTO knob (A) down to DISENGAGE.
3. Lower snowthrower to the ground.



4. LOCK the park brake (B).
5. STOP the engine.
6. Remove the key (C).
7. Wait for rotor to STOP.

Transporting

IMPORTANT: Avoid machine damage! ALWAYS LOWER SNOWTHROWER to trailer deck when transporting.

1. Drive tractor and snowthrower onto heavy-duty trailer equipped with lights and signed required by law.
2. LOWER SNOWTHROWER to trailer deck.
3. STOP engine.

OPERATING

4. LOCK park brake.
5. Fasten tractor 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

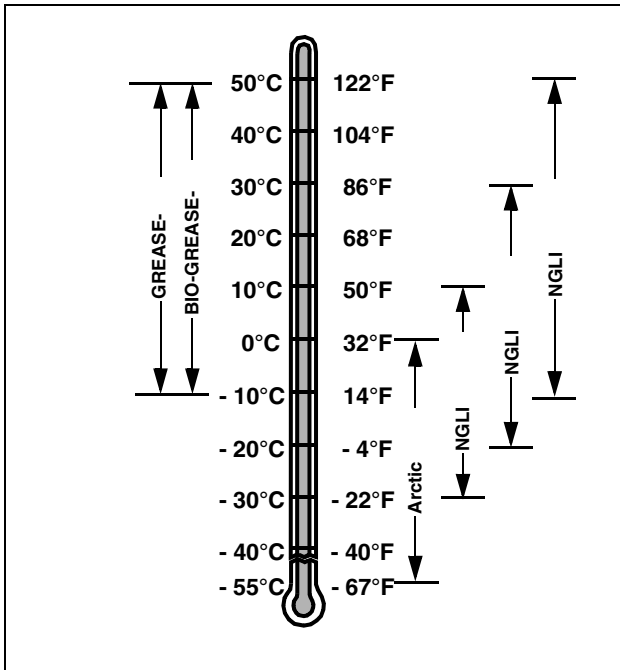
(Part numbers are subject to change without notice. Part Numbers may be different outside the U.S.A.)

SERVICE

Service Intervals

Beginning Of Season	Adjust belt tension.
	Lubricate countershaft.
	Lubricate worm gear and chute.

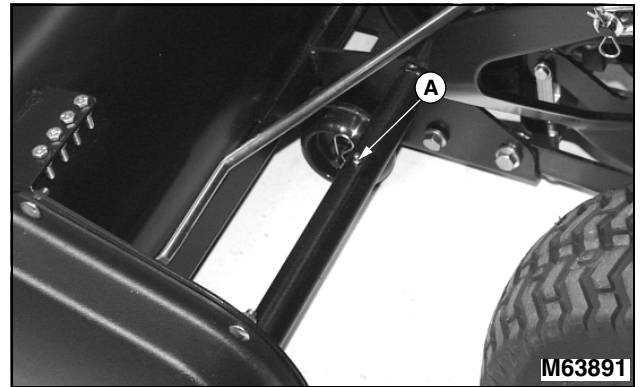
Grease



Use grease based on the expected air temperature range during the service interval.

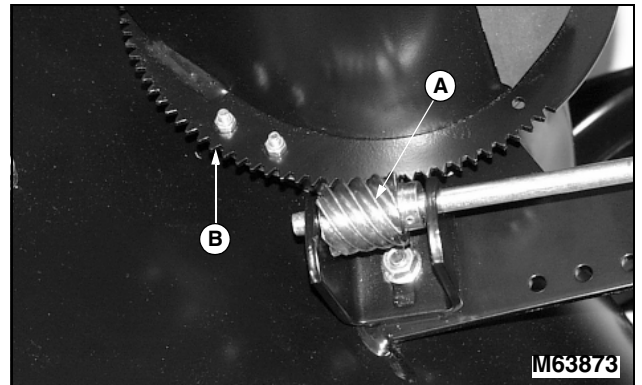
- SAE Multipurpose EP Grease with 3 to 5 percent molybdenum disulfide.
- SAE Multipurpose EP Grease.
- Greases meeting Military Specification MIL-G-10924C may be used as arctic grease.

Lubricating Countershaft



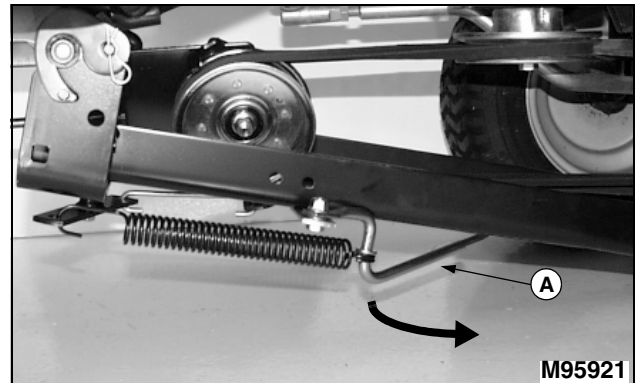
Lubricate shaft at point (A) with multipurpose EP grease or an equivalent.

Lubricating Worm Gear and Chute



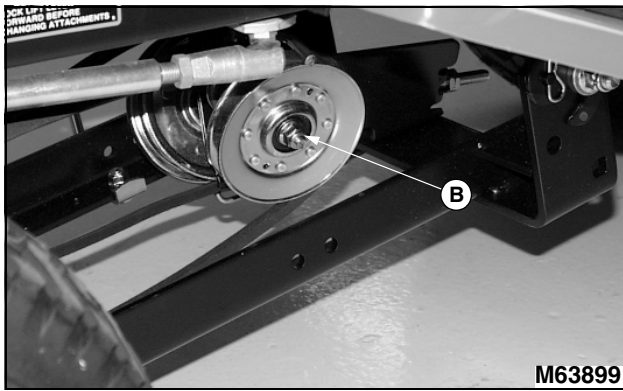
Apply multipurpose EP grease or an equivalent on worm gear (A) and between chute (B) and chute base.

Adjusting Drive Belt Tension

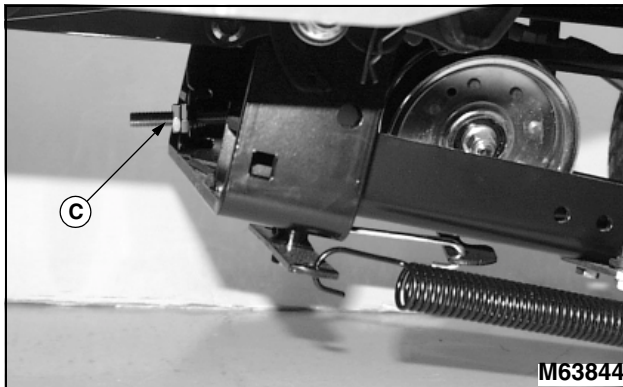


1. Pivot tightening lever (A) forward and lock under snowthrower frame to tighten belt.

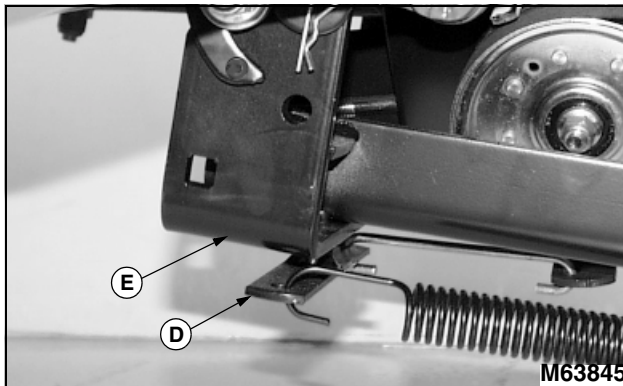
SERVICE



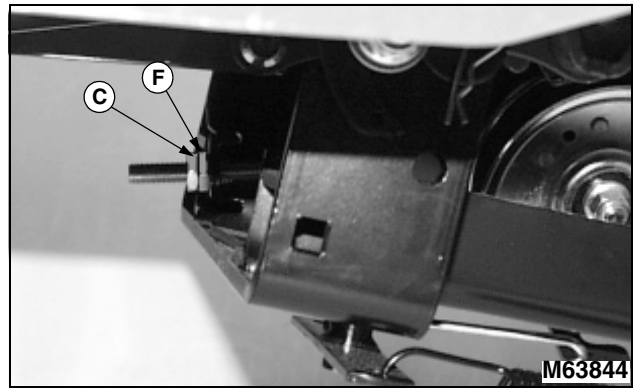
2. Loosen nut (B) on left idler.



3. Loosen jam nut (C).



4. Belt tension is CORRECT WHEN idler arm (D) is PARALLEL with welded frame (E) as shown.



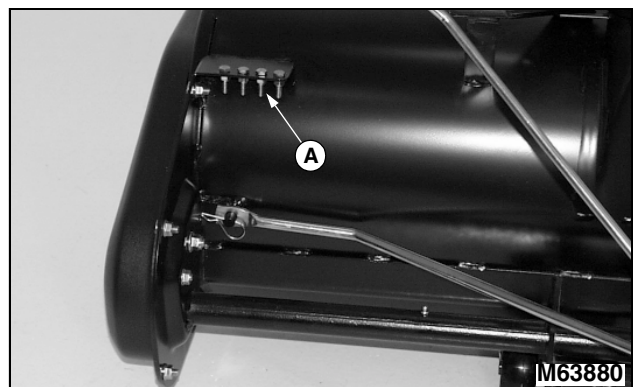
5. Adjust nut (F) if needed.
6. Tighten jam nut (C).
7. Tighten nut on left idler.

Replacing Shear Bolt

IMPORTANT: Avoid machine damage! Replacement shear bolts MUST BE same as original shear bolts on your snowthrower:

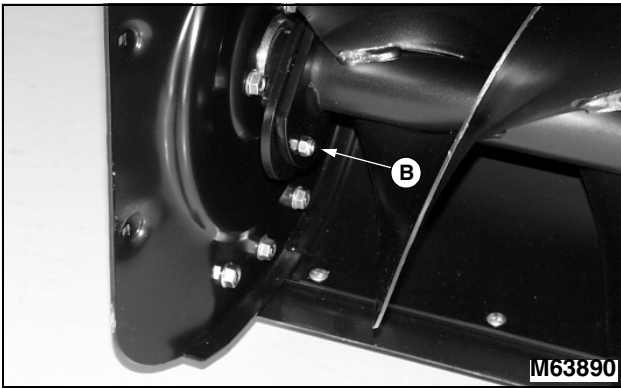
- Softer bolts may shear too easily.
- Harder bolts may not shear and snowthrower may be damaged.

1. STOP the tractor.
2. LOCK the park brake.
3. Remove the key.
4. Find and correct the cause for shearing.



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

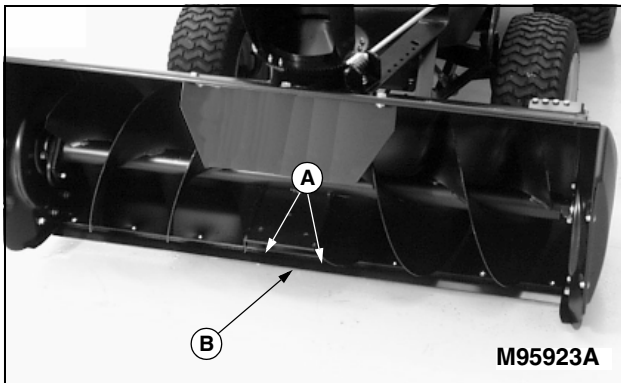
SERVICE



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

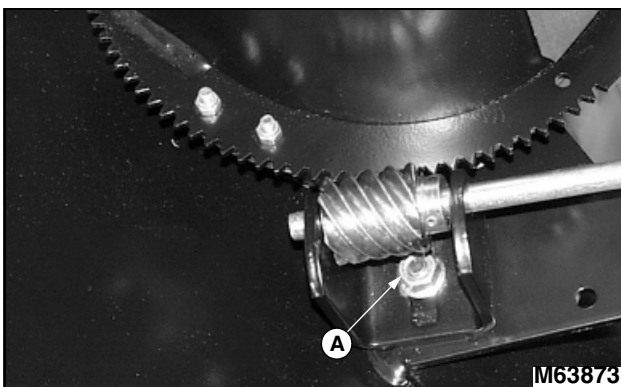
Reversing or Replacing Scraper Blade

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



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

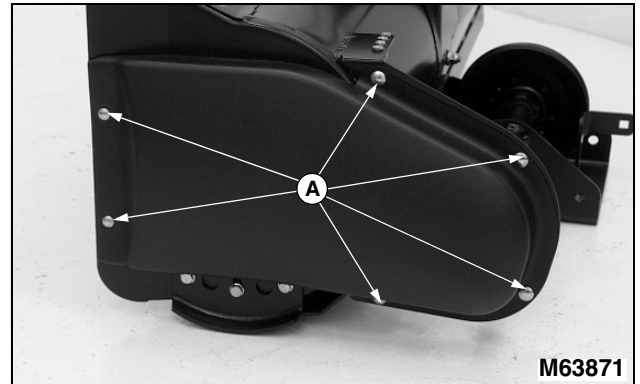
Adjusting Worm Gear



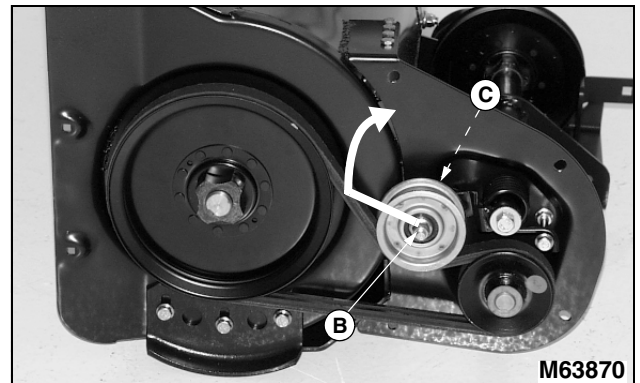
1. Loosen nut (A).

2. Move worm gear against teeth on discharge chute.
3. Tighten nut.

Replacing Auger Drive Belt



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



2. Place wrench on idler bolt (B) and lift upward.

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

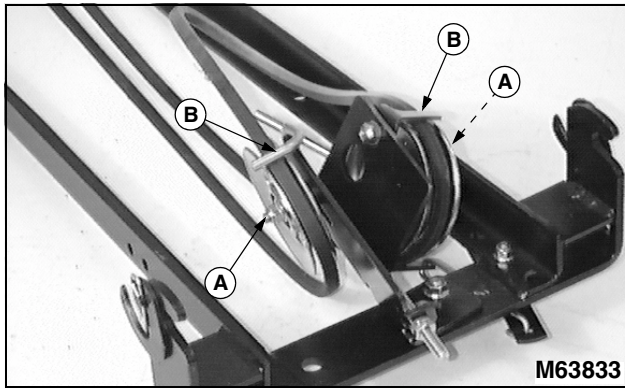
3. Remove old belt.
4. Install new belt as shown.
5. Install belt cover.

Replacing Drive Belt

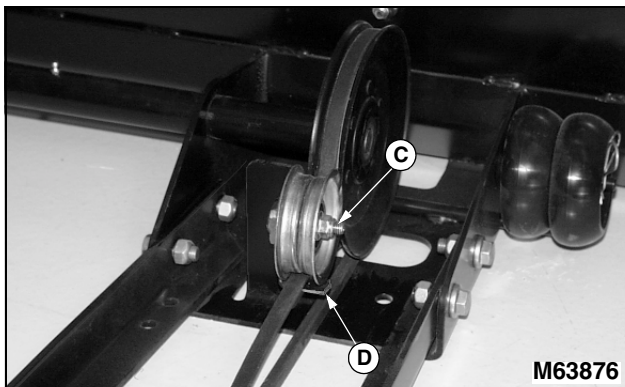
IMPORTANT: Avoid machine damage! Check position of belt guides after you install snowthrower on tractor: Guides **MUST NOT** touch belt.

1. Remove snowthrower from tractor.

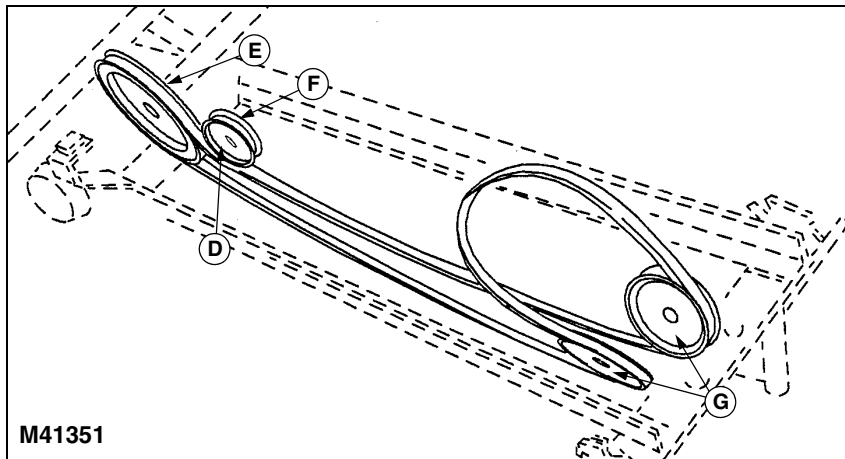
SERVICE



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



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



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.
7. Install snowthrower.
8. Adjust belt tension.

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

- Put belt around idlers (G) and tighten belt guide bolts.
- Inspect belt installation for no twists in belt.

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.

STORAGE

Storing Snowthrower



CAUTION: Avoid injury! DO NOT work under a raised snowthrower unless it is supported correctly.

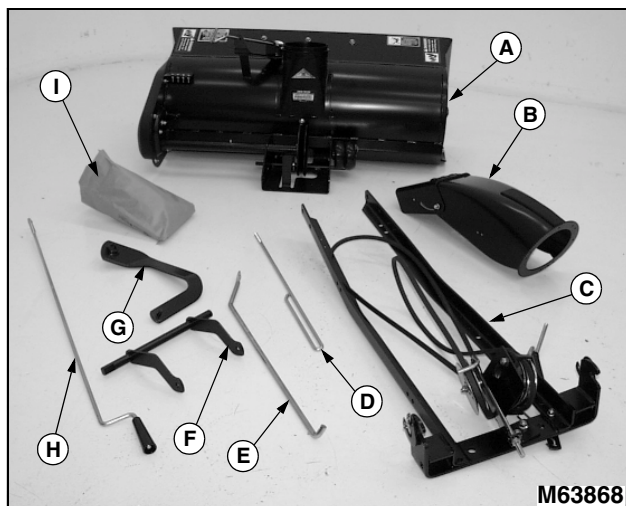
1. Remove snowthrower from tractor.
2. Clean the snowthrower with water under pressure.
3. Check belt. If necessary, get new belt. Do not install new belt until you take snowthrower out of storage.
4. If possible, store snowthrower indoors on hard, level surface.

If you store snowthrower outside:

- Put blocks or a board under snowthrower.
 - Cover snowthrower with a waterproof cover.
5. Inspect snowthrower. Repair or replace badly worn or damaged parts.
 6. Apply touch-up paint where needed to prevent rust.
 7. Lubricate snowthrower.

ASSEMBLY

Identify Parts in Snowthrower Carton



- A - Snowthrower Assembly**
- B - Welded Discharge Chute**
- C - Welded Frame with Idlers and Belt**
- D - Lift Rod**
- E - Sway Bar Rod**
- F - Welded Front Lift Shaft**
- G - Welded Lift Lever**
- H - Chute Control Rod**
- I - Bag of Parts**

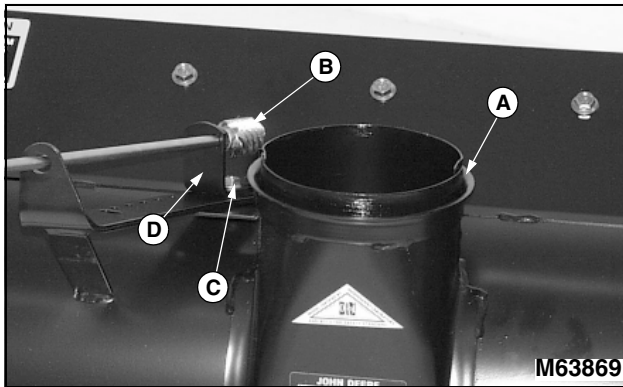
Bag of Parts (I) Contains:

Qty	Description	Size
3	Clips	
6	Bolts	M5 x 20
6	Hex Lock Nuts	M5
1	Black U-Joint	
1	Flat Idler Sheave with Bearing	
1	Belt Angle	
1	Carriage Bolt	M10 x 50
1	Hex Flange Lock Nut	M10
10	Small Spring Locking Pins	
1	Chute Control Bracket	
1	Short Drilled Pin	
1	Snap-In Bearing	
2	Front Lift Brackets	
4	Hex Flange Bolts	M12 x 30

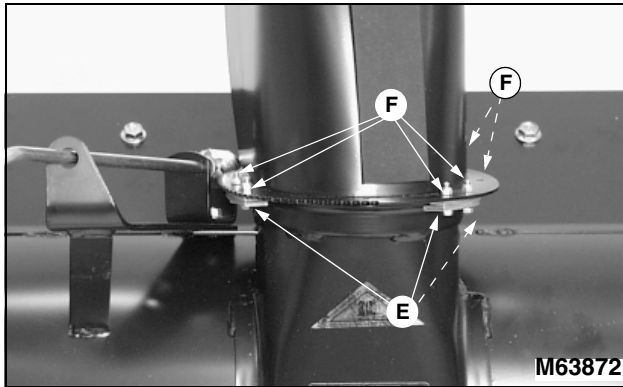
Qty	Description	Size
4	Hex Head Bolts	M12 x 30
4	Hex Lock Nuts	M12
4	Hex Flange Lock Nuts	M12
3	Yokes	
5	Medium Drilled Pins	
2	Washers	.406 x 1.0 x.134
2	Retainers	
3	Hex Jam Nuts	3/8
2	Hex Head Bolts	3/8 x 4.25
1	Sway Bar Bracket	
2	Large Spring Locking Pins	
2	Clamp-On Nuts	M8
2	Hex Flange Bolts	M8 x 25
2	Cap Screws	M12 x 65
2	Flanged Spacers	
2	Red Reflectors	
1	Medium Spring Locking Pin	
2	D-Shaped Bearings	
2	Washers	M10.5 x 30 x 2
1	Long Drilled Pin	
1	J-Bracket	
1	Bolt	M8 x 45
1	Hex Lock Nut	M8
2	Washers-Extra for Rear Mounts	M13 x 37 x 3

ASSEMBLY

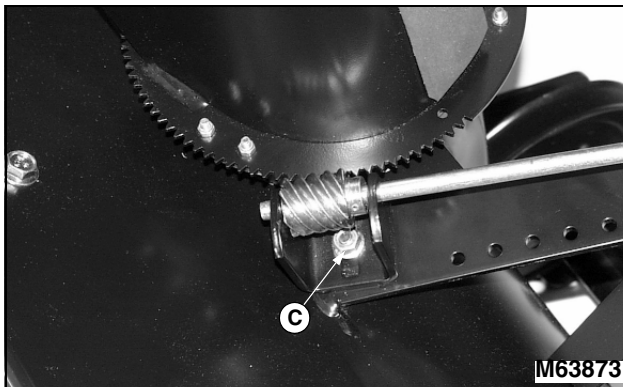
Assemble Chute and Welded Frame



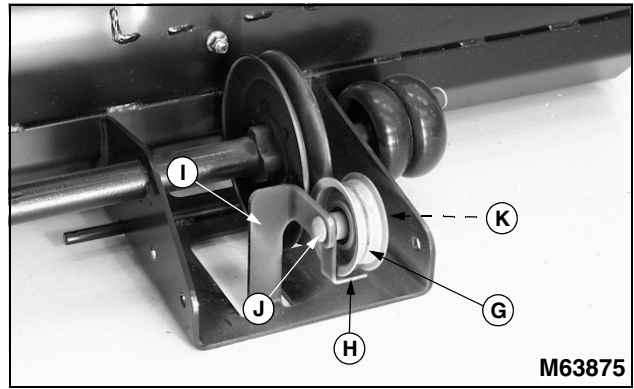
1. Apply multipurpose EP grease or an equivalent on chute base (A) and worm gear (B).
2. Loosen nut (C) and move worm gear bracket (D) away from chute base.



3. Fasten chute to base with three clips (E) and six M5 x 20 bolts and lock nuts (F).

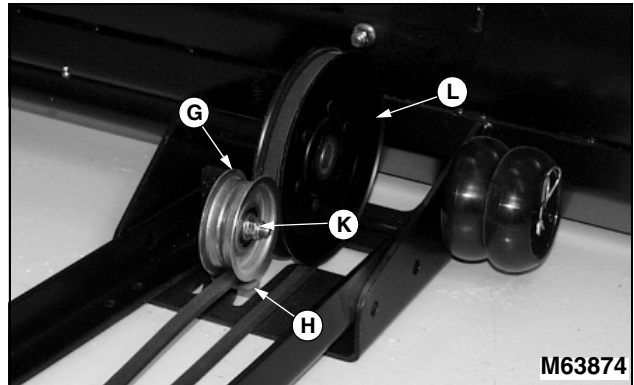


4. Move worm gear against teeth on discharge chute and tighten nut (C).



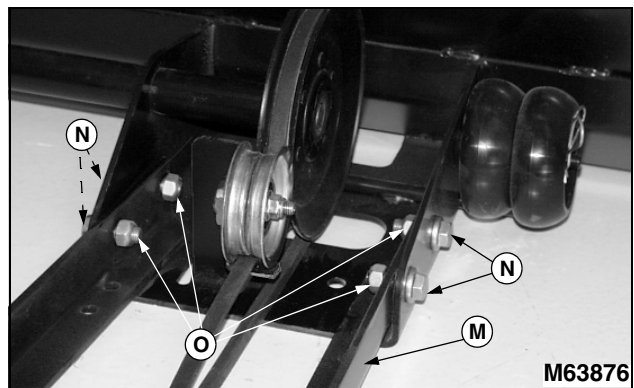
5. Install idler sheave (G) and belt guide (H) to welded support (I) using M10 x 50 bolt (J) and flange lock nut (K). DO NOT tighten at this time.

IMPORTANT: Avoid machine damage! Make sure belt DOES NOT touch belt guide.



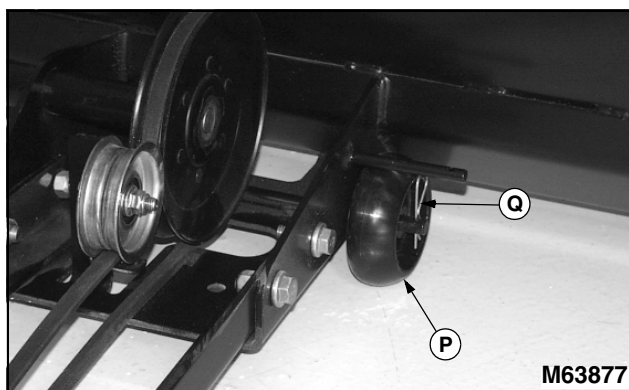
6. Slide welded frame to snowthrower and attach belt to drive sheave (L) and between idler sheave (G) and belt guide (H). Tighten nut (K).

NOTE: When tightening nuts, lift UP on opposite end of welded frame.

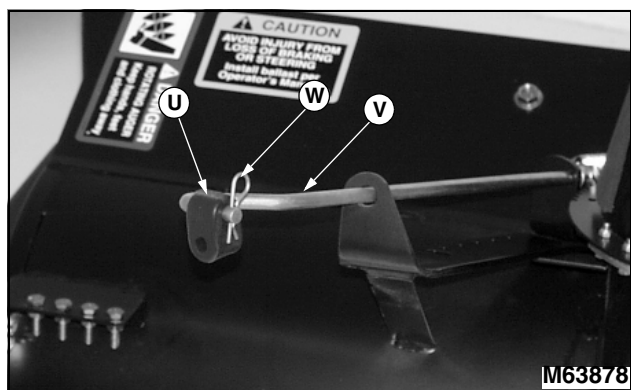


7. Lift up on welded frame (M) near sheaves and fasten to snowthrower frame with four M12 x 30 hex flange bolts (N) and M12 hex lock nuts (O), (nuts on the inside). Tighten nuts.

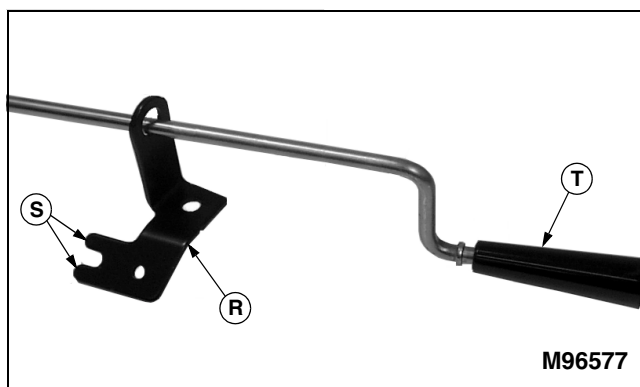
ASSEMBLY



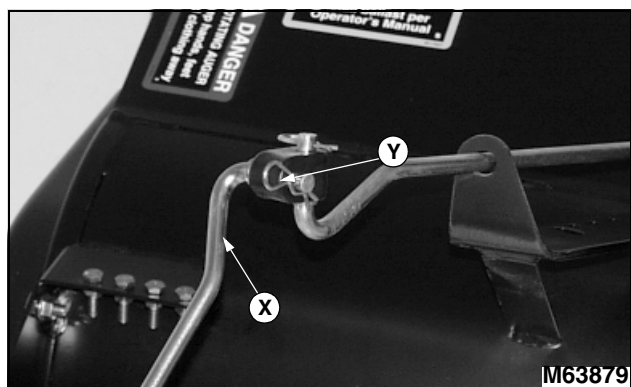
8. Install wheels (P), one on each side of snowthrower frame, and fasten with spring locking pin (Q).



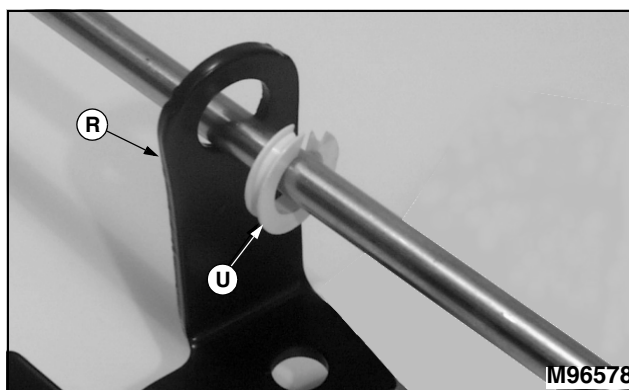
11. Install black U-joint (U) to crank support rod (V) and fasten with spring locking pin (W).



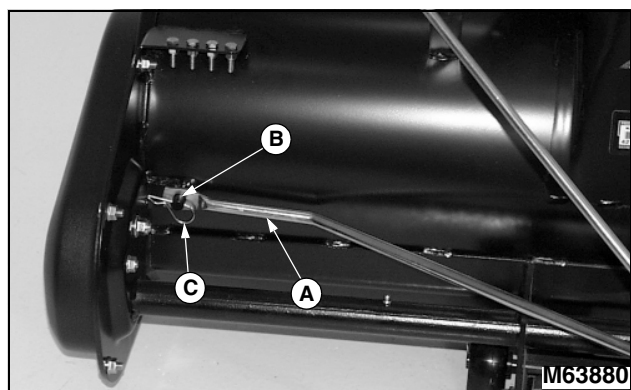
9. Slide chute control bracket (R) onto chute control rod with forked end (S) facing away from handle (T).



12. Insert end of chute control rod (X) into U-joint and fasten with spring locking pin (Y).

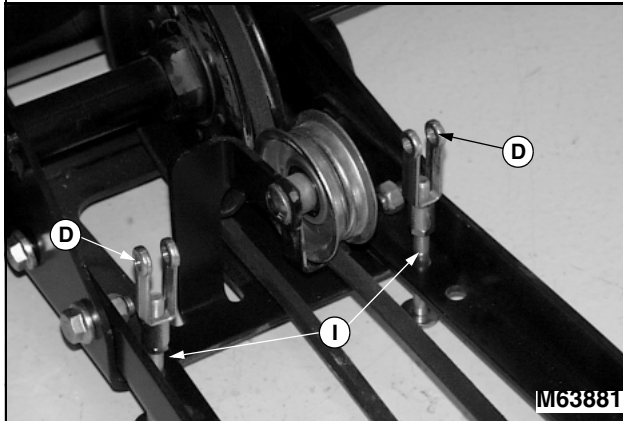
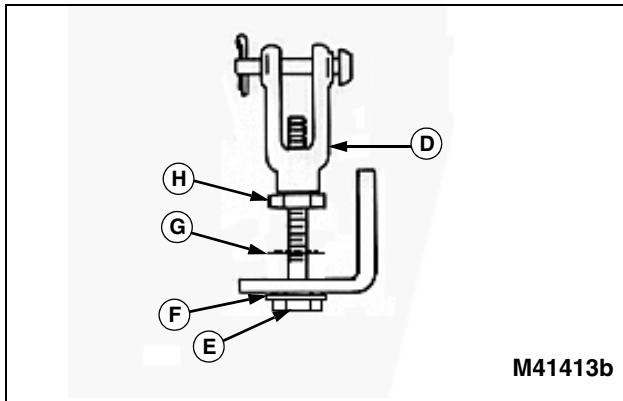


10. Position snap-in bearing on chute control rod so wider flange (U) is facing away from bracket (R) as shown. Install bearing in hole bracket (R).



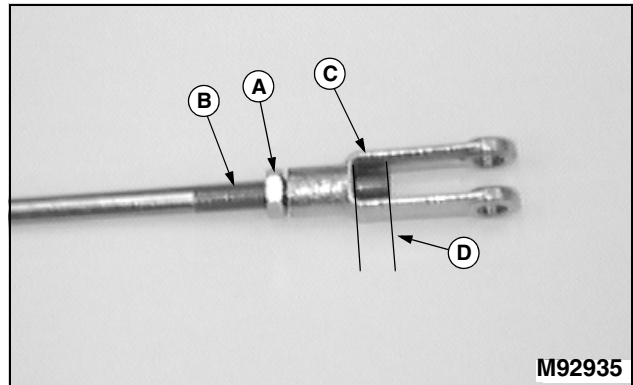
13. Install sway bar (A) on welded rod (B) and secure with large spring locking pin (C).

ASSEMBLY

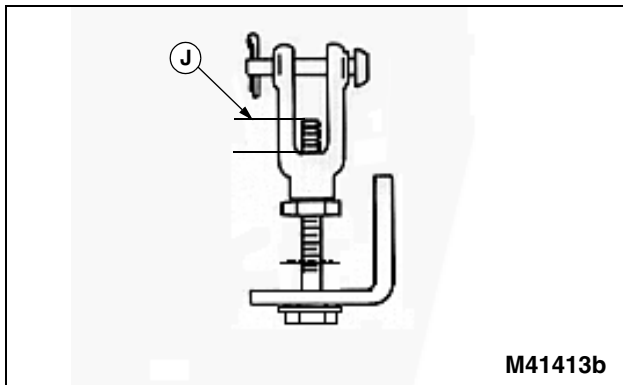


Fasten each yoke (D) to snowthrower frame with 3/8 x 4-1/4 in. bolt (E), .406 x 1.0 x .134 in. washer (F), retainer (G), and 3/8 in. jam nut (H) in FIRST hole (I).

Assemble Yoke to Lift Rod



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.



14. Adjust jam nuts until bolt exposed inside of yoke, dimension (J), is approximately 10-12 mm.

SPECIFICATIONS

SNOWTHROWER

Overall Length (Snowthrower only):	1448 mm (57 in.)
Overall Length (Installed on tractor):	2337 mm (92 in.)
Overall Length (Installed on tractor with rear weights):	2451 mm (96.5 in.)
Width Of Cut	1067 mm (42 in.)
Overall Width	1099 mm (43 1/4 in.)
Height Of Opening	413 mm (16 1/4 in.)
Overall Height	940 mm (37 in.)
Auger Diameter	305 mm (12 in.)
Auger Speed	1000 rpm
Lift Height	102 mm (4 in.)
Chute Rotation	216 Degrees
Weight, Approximate	84 kg (185 lb)

(Specifications and design subject to change without notice)

Recommended Lubricants:

- SAE Multipurpose EP Grease with 3 to 5 percent molybdenum disulfide.
- Multipurpose EP Grease.
- Greases meeting Military Specification MIL-G10924C may be used as artic grease.

Optional Equipment:

NOTE: To obtain any of the items listed below, contact your Authorized Service Center.

- Drift Blade
- Heavy Duty Skid Shoes
- Auger Wear Plate

INDEX

A		Shear Bolt, Replacing20
Attachments Recommended5		Snowthrower, Before Operating13
Auger Drive Belt, Replacing21		Snowthrower, Installing7
B		Snowthrower, Operating16
Belt Tension, Adjusting19		Snowthrower, Raising and Lowering13
Belt, Replacing Auger Drive21		Snowthrower, Removing10
Belt, Replacing Drive21		Snowthrower, Stopping Tractor and13
Blade Clearance, Adjusting Scraper15		Snowthrower, Storing24
Blade, Reversing or Replacing Scraper21		Snowthrowing Tips13
Bolt, Replacing Shear20		Specifications29
Bracket on Lift Lever6		Spout, Adjusting15
C		Stopping Tractor and Snowthrower13
Chute, Adjusting15		Storing Snowthrower24
Chute, Lubricating19		Sway Bar Bracket, Install6
Countershaft, Lubricating19		T
D		Tape, Install Reflective6
Draft Arm Pivot Bolts, Install5		Technical Manual18
Drive Belt, Replacing21		Tire Pressure, Check5
G		Tractor Attachments Recommended5
Grease19		Transporting16
I		Troubleshooting Chart23
Install Snowthrower7		W
L		Worm Gear, Adjusting21
Leveling Snowthrower14		Worm Gear, Lubricating19
Lift Effort, Adjusting14		
Lift Height, Adjusting14		
O		
Operating Checklist, Daily13		
Operating Safety2		
Operating Snowthrower13		
P		
Part Numbers18		
Parts Catalog18		
Parts, Replacement18		
R		
Raising and Lowering Snowthrower13		
Reflective Tape, Install6		
Removing Snowthrower10		
S		
Safety, Operating2		
Safety, Service3		
Safety-Alert Symbol; Labels, Safety1		
Scraper Blade, Reversing or Replacing21		
Service Intervals19		
Service Safety3		
Set-up Instructions25		

NOTES

QUALITY STATEMENT

Your product, designed and built by John Deere, is more than just a purchase, it's an investment in quality. That quality goes beyond our equipment to your dealer's parts and service support.

That's why John Deere has initiated a process to handle your questions or problems, should they arise. If you have questions or problems with your new product, please follow the steps below.

To locate your nearest authorized servicing dealer, please call the toll free number listed in your Tractor Operator's Manual.

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 authorized servicing 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 Customer Communications Center

- A. Your authorized servicing 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 refer to your Tractor Operator's Manual to locate the Customer Communications Center toll free number and call our advisor who will work with your dealer to investigate your concern.