

38-Inch Snowthrower



OPERATOR'S MANUAL



John Deere Horicon Works
OM-M89683 Issue H5

Litho in U.S.A.

Introduction

Thank You for purchasing a John Deere Snowthrower.

Read This Manual carefully to learn how to operate and service your snowthrower correctly. Failure to do so could result in personal injury or equipment damage.

This manual should be considered a permanent part of your snowthrower and should remain with the snowthrower when you sell it.

Measurements in this manual are U.S. units and their metric equivalents.

Right-Hand and Left-Hand sides of the snowthrower are determined by facing in the direction the snowthrower will travel when going forward.

Write Serial Number of your snowthrower in the Specifications section. Your dealer needs this number when you order parts.

If A Problem Should Arise or if you have any questions about your snowthrower, see your John Deere dealer.

Warranty is provided as part of John Deere's support program for customers who operate and maintain their equipment as described in this manual.

The warranty does not cover:

A—Products which have been altered or modified in ways not approved by John Deere, including setting fuel delivery above specifications or otherwise overpowering of products.

B—Depreciation or damage caused by normal wear, accident, lack of reasonable and necessary maintenance as specified in this manual, improper maintenance, improper protection in storage, or improper use or abuse.

C—Normal maintenance and replacement of service items such as filters, spark plugs, belts, brake linings, cutting blades and hoses unless such items are defective.

D—Transportation, mailing and service call charges for warranty service.



38-Inch Snowthrower on a 180 Lawn Tractor

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

Dealer Checklists

DEALER'S RECORD

Owner's Name _____

Address _____ City _____

State _____ Zip Code _____

Date Sold _____

Snowthrower Serial Number _____

M23;DCAM A 051184

PREDELIVERY CHECKLIST

Check the following before you deliver the snowthrower to the customer:

- | | |
|--|--|
| <input type="checkbox"/> 1. Guards and shields fastened in place | <input type="checkbox"/> 4. Tighten loose hardware |
| <input type="checkbox"/> 2. Decals fastened and legible | <input type="checkbox"/> 5. Touch up scratches in paint |
| <input type="checkbox"/> 3. Chain tension | <input type="checkbox"/> 6. Clean and polish snowthrower |

Date Set Up

Signature

M23;DCAM B 051184

DELIVERY CHECKLIST

Review the operator's manual with the customer. Explain the following:

- | | |
|---|--|
| <input type="checkbox"/> 1. John Deere warranty | <input type="checkbox"/> 9. John Deere parts and service |
| <input type="checkbox"/> 2. Safe operation and service | <input type="checkbox"/> 10. Have the customer write the snowthrower serial number in the Specifications section. |
| <input type="checkbox"/> 3. Installing and removing snowthrower | <input type="checkbox"/> 11. Remove and file this page. |
| <input type="checkbox"/> 4. How to use controls | <input type="checkbox"/> 12. Tell the customer about helpful John Deere publications. Show customer the order form in back of this manual. |
| <input type="checkbox"/> 5. Operating the snowthrower correctly | <input type="checkbox"/> 13. Give the customer the operator's manual. Encourage the customer to read the manual. |
| <input type="checkbox"/> 6. Troubleshooting the snowthrower | |
| <input type="checkbox"/> 7. Daily and periodic inspections | |
| <input type="checkbox"/> 8. Servicing the snowthrower regularly and correctly | |

Date Delivered

Signature

M23;BCAM C 061184

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Safety

CERTIFICATION

This OPEI label shows that your model snowthrower has been certified by an independent laboratory for compliance with American National Standard B71.3-1984 "Safety Specifications for Snowthrowers."



7A0;M35974 M23;SAAM A 061184

READ SPECIAL MESSAGES

A **"CAUTION"** means that you may be injured if you do not follow instructions. When you see the caution symbol at the right, obey the safety message to avoid personal injury.

An **"IMPORTANT"** message means that your machine may be damaged if you do not do what the message tells you.

A **"NOTE"** gives you helpful information.



7A0;T81389 M23;SAQB A 220684

READ SAFETY SIGNS

Carefully read and follow all **DANGER** and **CAUTION** safety signs.

Keep safety signs in good condition. Replace any damaged or missing safety signs.



On Top of Auger Housing, One on Each End



On Top of Discharge Chute Spout



On Top of Right-Hand Side of Auger Housing

7A0;M35512 M35975 M35976 M23;SAQB B 060285

LEARN SNOWTHROWER SAFETY

Carefully read this manual and your tractor manual. Learn how to operate your snowthrower correctly.

Unauthorized modifications to the snowthrower may impair the function and/or safety and affect machine life. Use only approved accessories on the snowthrower.

Do not let anyone operate the snowthrower without proper instruction.



7A0;M35176 M23;SAAM D 061184

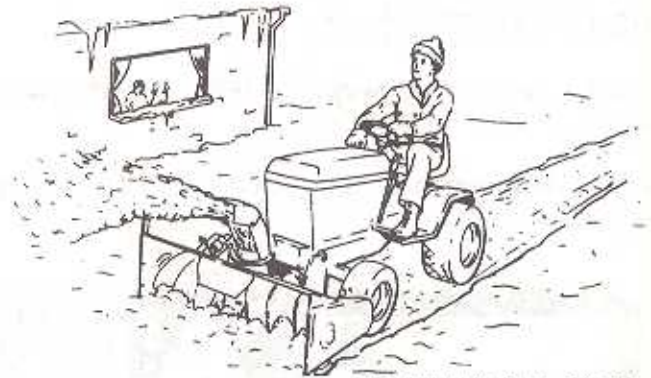
PROTECT PEOPLE AND PETS

Keep children and pets out of snowthrowing area.

DO NOT allow children to ride on tractor or snowthrower.

DO NOT allow children to operate tractor or snowthrower.

DO NOT throw snow toward bystanders, buildings, or automobiles.



7A0;M35977 M23;SAAM E 061184

CLEAR THE WORK AREA

Keep the work area clear of objects that may be picked up and thrown by the snowthrower.

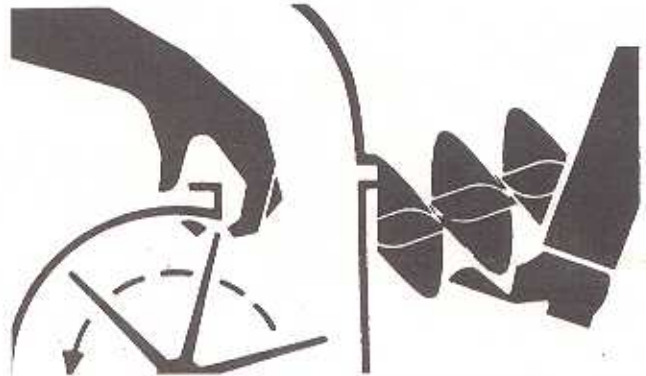


7A0;M34743 M23;SAAM F 061184

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 driving between jobs or when you are not throwing snow.



7A0;M36022 M23;SAAM G 061184

PRACTICE PERSONAL SAFETY

Wear fairly tight and belted clothing when you operate snowthrower. Loose clothing can catch in moving parts.

Be alert. DO NOT operate snowthrowing equipment when you are tired or ill.

Work area should be well-lighted by natural light, good artificial light, or tractor headlights.



7A0;M35978 M23;SAAM I 061184

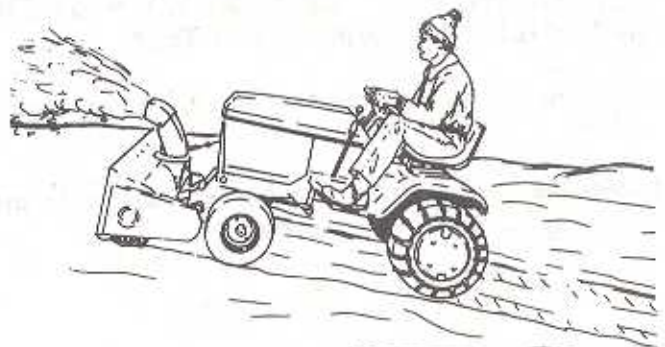
AVOID TIPPING

Slow down and be very careful on slopes and in sharp turns to prevent tipping or losing control.

Use chains and approved rear weights on your tractor for operation on slopes and in difficult conditions.

DO NOT operate near edge of a ditch or bank.

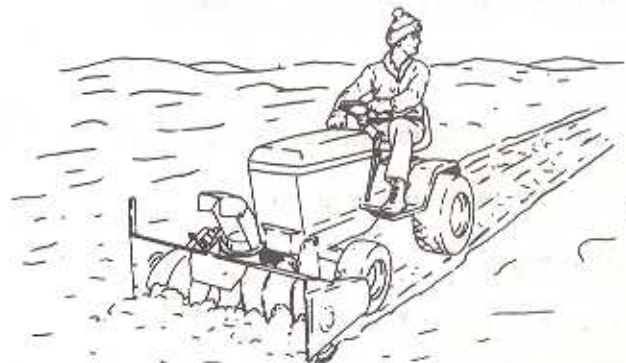
Keep away from drop-offs, holes, rocks, and roots. Be alert for hidden hazards.



7A0;M35979 M23;SAAM J 061184

BACK SNOWTHROWER SAFELY

Look carefully behind the tractor before you back up.



7A0;M35980 M23;SAAM K 061184

SERVICE SNOWTHROWER SAFELY

Wait until auger has stopped before you service snowthrower.

DO NOT work on snowthrower while it is being operated.

Keep snowthrower clean.



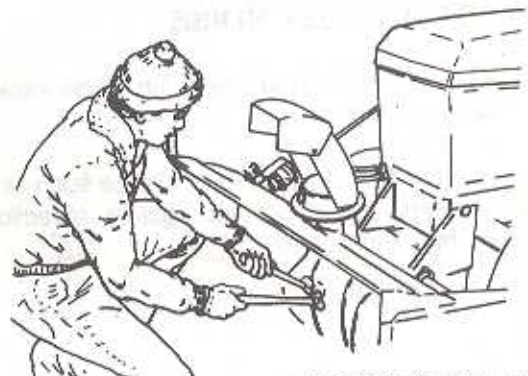
7A0;M35991 M23;SAAM L 061184

PRACTICE SAFE MAINTENANCE

If you hit an object, stop the snowthrower. Fix damage before you operate again.

Keep all parts in good condition and fastened in place.

Fix damage immediately. Replace worn or broken parts.



7A0;M35981 M23;SAAM M 061184

INSPECT TRACTOR AND SNOWTHROWER CAREFULLY BEFORE OPERATION

Follow the Prestaring Checks in your tractor operator's manual.

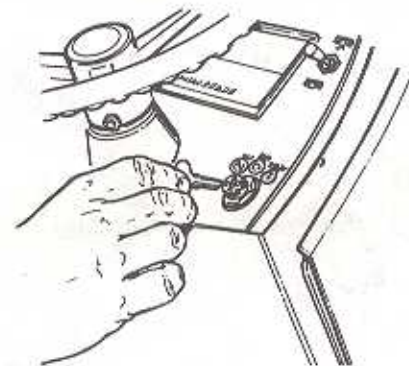
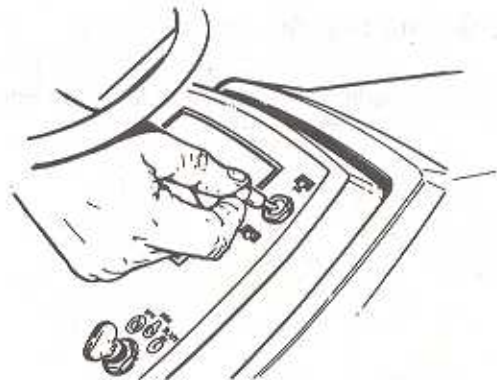
Follow the Before Using Snowthrower checks in the Operating the Snowthrower section.



7A0;M35982 M23;SAAM N 061184

PARK SNOWTHROWER SAFELY

1. Stop tractor.
2. Put PTO switch (shown) in OFF position.
3. Lower snowthrower to ground.
4. Stop engine.
5. Lock park brake. Remove key.



7A0;M38504 M38525 M23;SAAT A 130685

PROTECT AGAINST NOISE

Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing protective device such as earmuffs (A) or earplugs (B) to protect against objectionable or uncomfortable loud noise.



6A9;M28247 M23;SAMB 05 020683

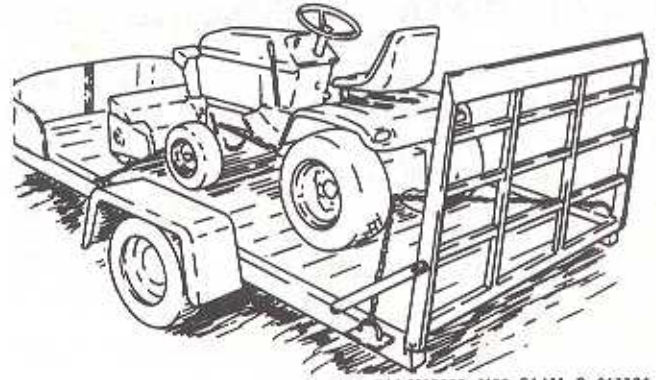
TRANSPORT TRACTOR AND SNOWTHROWER SAFELY

DO NOT pull tractor and snowthrower behind any other vehicle.

Use a heavy-duty trailer to transport tractor and snowthrower. Lower snowthrower to trailer deck. Lock park brake.

Be sure trailer has all the necessary lights and signs required by local, state, provincial, or federal laws.

Fasten the tractor and snowthrower to the trailer with straps, chains, or cables.



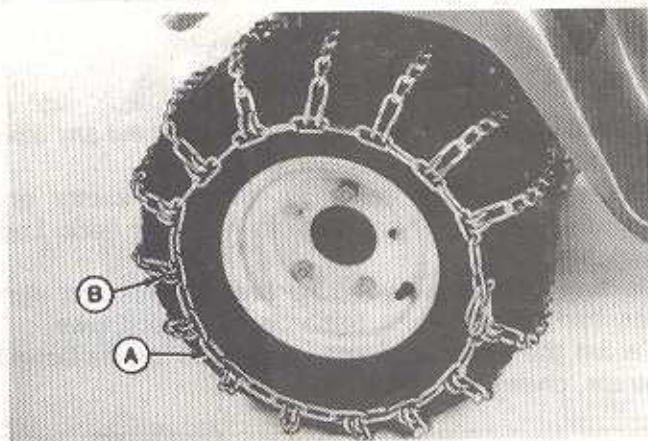
7A0;M35983 M23;SAAM P 061184

Installation

SNOWTHROWER REQUIREMENTS

It is recommended that rear tractor weights and tire chains be installed on the tractor. (See your John Deere dealer.)

1. Install rear weights using instructions furnished with the kit.
2. Install tire chains (A) with hook end (B) out.

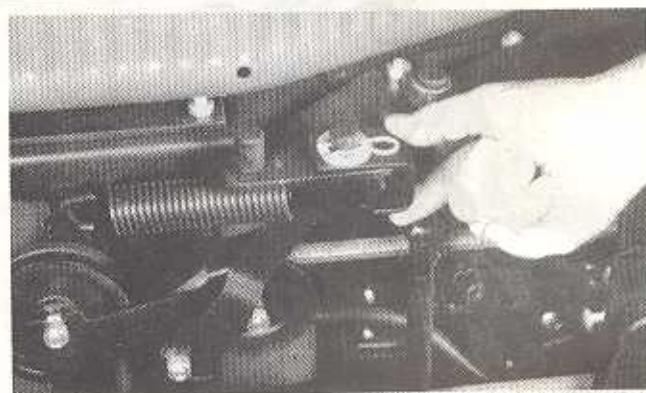


7A0;M23986 M23;INAT A 130685

REMOVE LIFT ASSIST SPRING ASSEMBLY

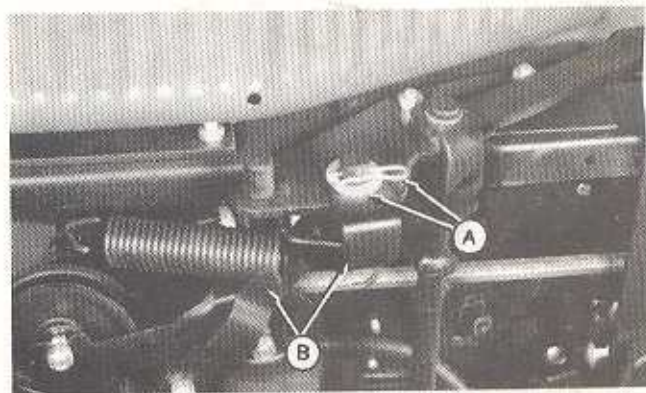
NOTE: The 130 Lawn Tractor does not have a lift assist spring.

1. Remove mower deck. See tractor operator's manual.
2. Pull spring attaching bracket down.



7A0;M38565 M23;INAT C 130685

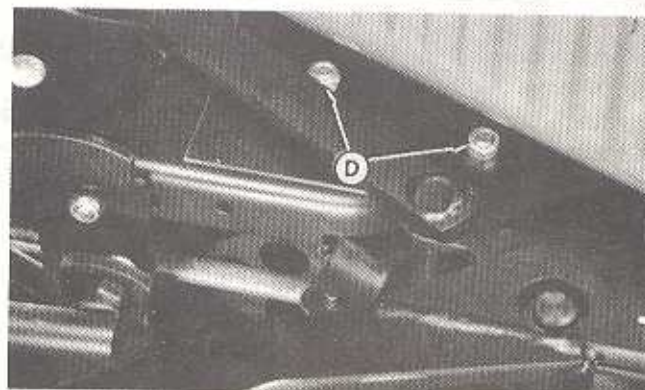
3. Remove spring locking pin and flatwasher (A).
4. Remove bracket and spring (B).
5. Keep parts with mower deck.



7A0;M38566 M23;INAT D 130685

INSTALLING SNOWTHROWER

1. Loosen rear bracket bolts (A) on both sides of tractor.



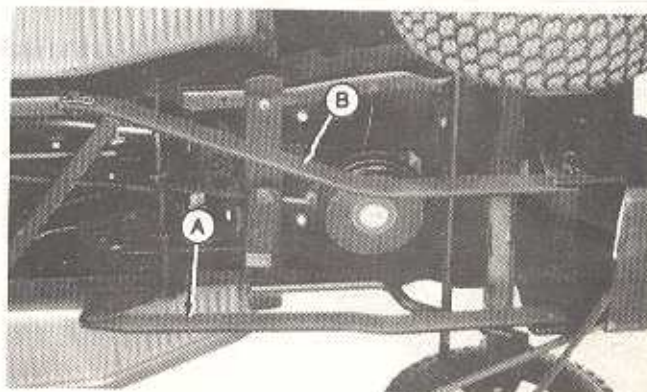
7A0/M38494 M23;INAT E 130685

2. Put snowthrower in front of tractor with drive belt under tractor.

3. Lift snowthrower and install support into front mounting bracket.

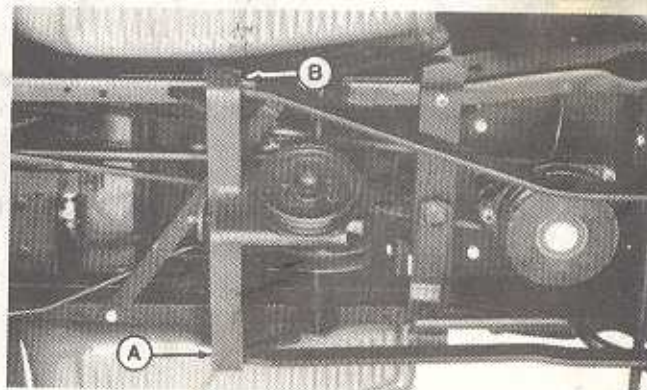
4. Install right and left support braces (A and B) to rear brackets, mount, and front draft bracket. Fasten braces with four spring locking pins.

5. Tighten rear bracket bolts on both sides of tractor.



7A0/M32542 M23;INAT F 130685

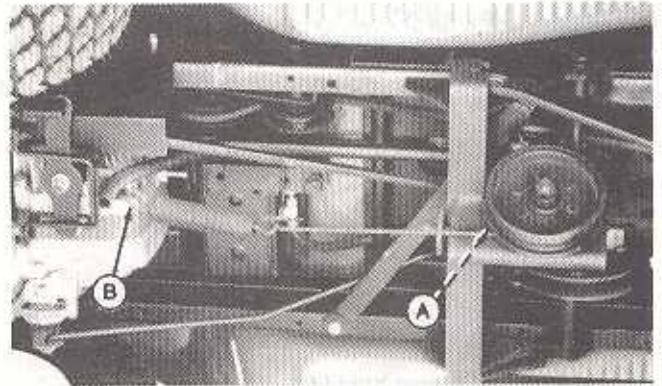
6. Hook idler assembly over pin (A) on left rear bracket and slide it over pin (B) on right rear bracket.



7A0/M32539 M23;INAT F1 080785

Installation

7. Attach one end of idler link to notch in idler arm (A).
8. Attach spring to idler link and hole in rear tractor frame (manual shift tractors) and clip (B) on the transmission (hydrostatic tractors).



7A0;M32540 M23;ISN E 250183

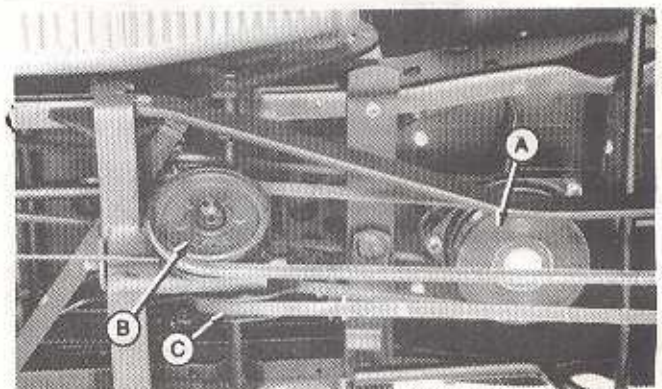
9. Connect lift rod to lift lever. Fasten rod with spring locking pin (A).



7A0;M38567 M23;INAT G 080785

NOTE: Snowthrower should be in the fully raised position to install drive belt and gas spring.

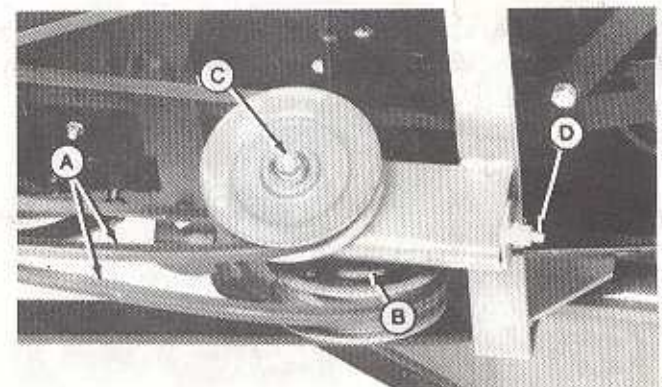
10. Loop drive belt and slip it on PTO drive sheave (A). Do not cross belt strands. The V-side of belt must be seated in drive sheave.
11. Install right-hand half of belt around flat idler sheave (B) with flat side of belt on sheave.
12. Install left-hand half of belt around V-idler sheave (C) with V-side of belt seated in sheave.



7A0;M32541 M23;INAT H 080785

13. To tighten drive belt (A), loosen lock nut and turn nut on adjusting bolt (D) until idler arm (B) is perpendicular to the ground. Loosen idler bolt (C) if necessary if idler arm is not perpendicular.

14. Tighten idler bolt (C) and lock nut on adjusting bolt (D).



7A0;M32703 M23;INAT I 130685

15. Connect gas spring assembly to support and fasten with spring locking pin (A).



7A0;M38568 M23;INAT J 130685

Belt from bottom pulley on blower goes to left side (V-groove) pulley.

Lift blower then place blower on 2 - 2"x4" so blower is raised high so belt will install easier.

Operating the Snowthrower

BEFORE USING SNOWTHROWER

Learn controls and how they work. Read your tractor operator's manual.

Check the following:

- Guards and shields fastened in place.
- Belt tension.
- Parts: loose, missing, worn, damaged.
- Adjustment: spout, runners.



7A0;M35176 M23;OSAT A 130685

Before snow falls, clear the work area of objects that may be picked up and thrown by the snowthrower.

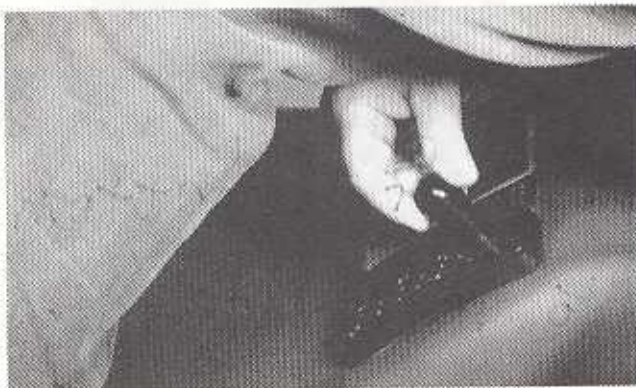


7A0;M34743 M23;OSAT B 130685

RAISING AND LOWERING SNOWTHROWER

NOTE: See your tractor operator's manual for location and operation of controls.

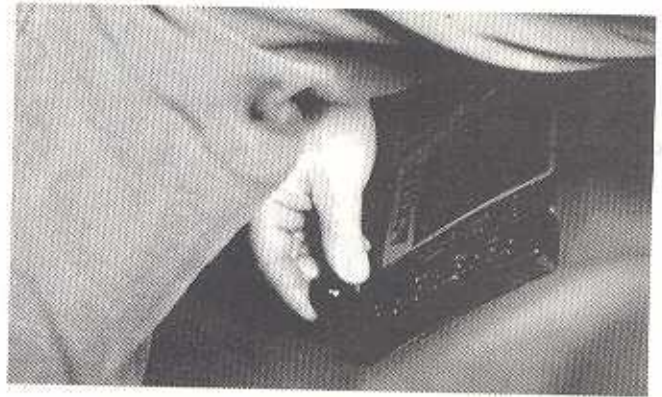
1. To raise snowthrower:
 - a. Move stop lever to top of slot.
 - b. Push down on thumb release. Pull lift lever all the way back. Let go of thumb release to lock lever in position.



7A0;M38569 M38570 M23;OSAT C 180785

2. To Lower Snowthrower:

- a. Move stop lever to bottom of slot.
- b. Push down on thumb release and allow lift lever to move all the way forward.



7AD;M38571 M38572 M23;OSAT D 180785

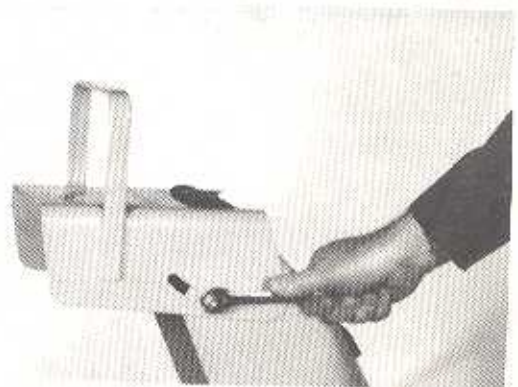
ADJUSTING SPOUT



CAUTION: Before you adjust spout:

- Stop snowthrower.
- Stop engine.
- Lower snowthrower to ground.
- Lock park brake. Remove key.
- Wait for auger to stop.

1. Grasp handle and move spout to desired position.
2. If spout will not stay in position, tighten nut on each side a slight amount.



7AD;M38573 M38574 M23;OSAT E 130685

ADJUSTING CHUTE

Turn handle to adjust chute to throw snow in desired direction.



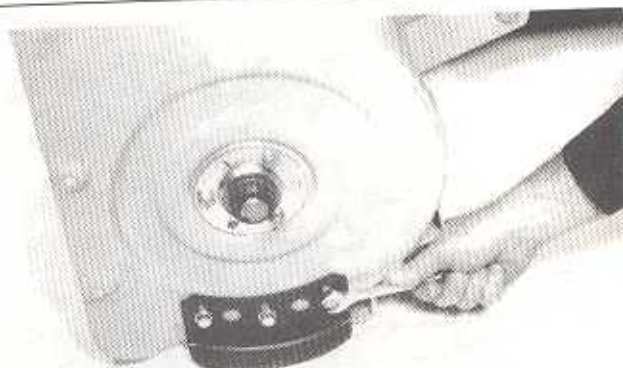
7A0;M38575 M23;OSAT F 130685

ADJUSTING RUNNERS

Before you operate snowthrower on gravel or uneven surfaces, lower runners all the way.

Raise runners before you throw snow from a smooth surface. Scraper blade should not scrape ground.

1. Raise snowthrower. Put a block under auger housing.
2. Loosen three cap screws. Move runner to desired position. Tighten cap screws.



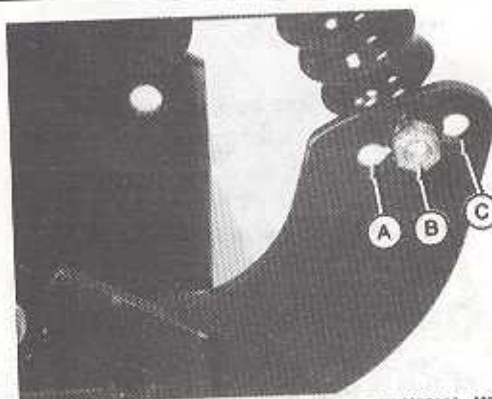
7A0;M38576 M23;OSAT G 130685

ADJUSTING LIFT

NOTE: Gas spring mount removed from snowthrower for clarity.

The gas spring can be fastened to hole A, B, or C to control snowthrower down pressure and operator lift effort.

- Hole A: Most down pressure with least lift assist
- Hole B: Normal operation
- Hole C: Least down pressure with more lift assist effort



7A0;M38611 M23;OSAT G1 130685

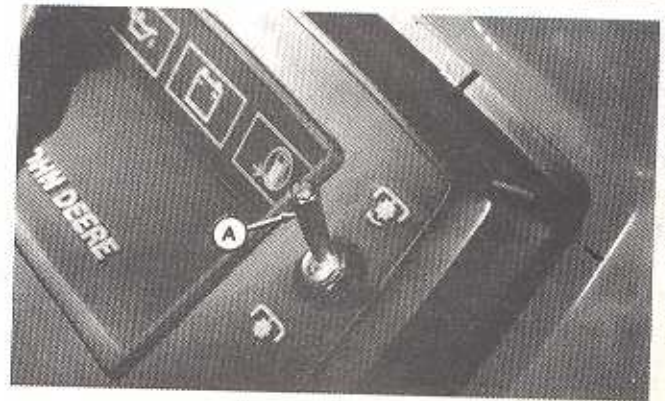
OPERATING THE SNOWTHROWER

NOTE: See your tractor operator's manual for location and operation of controls.

1. Start engine.
2. Move throttle lever to one-fourth speed position.
3. Lower snowthrower to ground.

IMPORTANT: To prevent clutch damage, do not engage PTO with throttle in FAST position.

4. Move PTO switch A to the ON position to engage snowthrower.



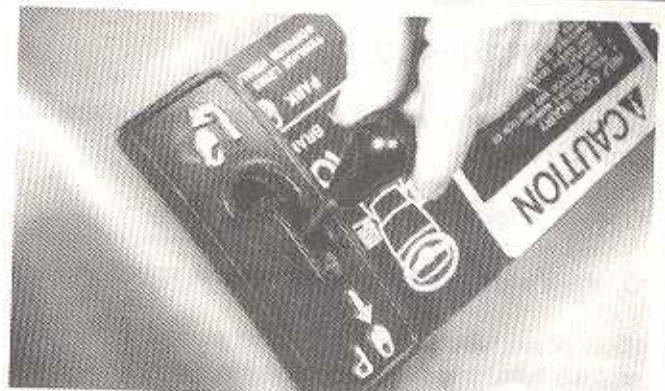
7A0;M38577 M38578 M23;OSAT H 090785

5. Move throttle lever to FAST position for best engine performance and snowthrowing results.

6. Release park brake.


CAUTION: Be sure the area is clear before you begin snowthrowing.

7. Engage transmission to begin forward travel.
8. Throw snow at a safe travel speed.



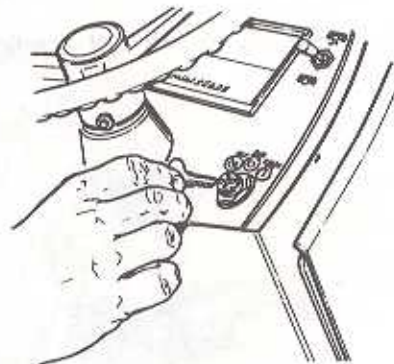
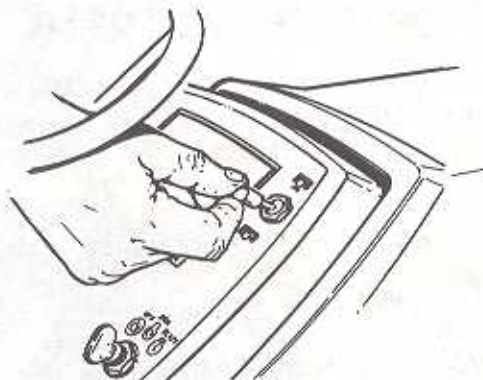
7A0;M38579 M23;OSAT I 090785

INSPECTING, UNPLUGGING OR PARKING SNOWTHROWER

 **CAUTION:** Follow steps below when you leave tractor and snowthrower.

1. Stop tractor.
2. Put PTO switch in OFF position.
3. Lower snowthrower to ground.
4. Lock park brake.
5. Stop engine.
6. Remove key.
7. Wait for auger to stop.

NOTE: If engine and snowthrower are running, engine and snowthrower must stop when you get off the operator's seat.



7A0/M38504 M38525 M23;OSAT J 130685

SNOWTHROWING TIPS

Before operation, adjust runners for the surface you plan to clear.

Operate snowthrower only at full throttle.

Operate snowthrower at a safe travel speed.

Slow down when you operate on slopes, before you make a turn, and when you operate close to buildings or trees.

For snowthrowing in drifts, the drift blade (optional) will cut through drifted snow and help break down drifts.

Use rear weights.

For snowthrowing on slopes, or in other difficult conditions, install chains on rear tractor tires.

Throw snow downwind, if possible.

If you hit an object with snowthrower, stop immediately. Repair damage before you operate again.

Before you clean or unplug snowthrower:

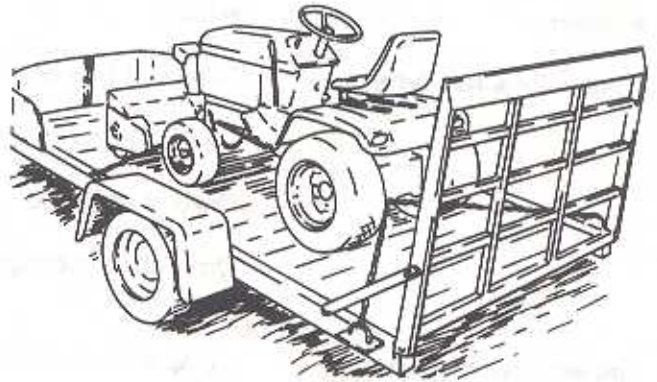
- Put PTO switch in OFF position.
- Stop engine.
- Lock park brake.
- Remove key.
- Wait for all parts to stop.

After you use the snowthrower, clean it.

M23;OSAT K 130685

TRANSPORTING TRACTOR AND SNOWTHROWER

1. Do not tow tractor and snowthrower. (See your tractor operator's manual for information on pushing tractor a short distance.)
2. Use a heavy-duty trailer to transport your tractor and snowthrower.
3. Lower snowthrower to trailer deck. Lock park brake.
4. Be sure trailer has all the necessary lights and signs required by local, state, provincial, or federal laws.
5. Fasten the tractor and snowthrower to the trailer with straps, chains, or cables.



7A0-M35983 M23-05AM K 081184

Troubleshooting

Symptom	Problem	Solution	Page
Auger does not turn	Drive belt broken	Replace drive belt.	22
	Drive belt worn	Replace drive belt.	22
	Drive chain loose	Adjust chain tension.	20
	Drive chain damaged	Replace chain, or see your John Deere dealer.	
Snowthrower operates erratically	Scraper blade damaged	Reverse or replace scraper blade.	22
	Drive belt worn	Replace drive belt.	22
	Drive chain loose	Adjust chain tension.	20
Tractor rear wheels slip	Lack of traction	Install rear weights and chains on tractor.	

Lubrication

GENERAL PURPOSE GREASE

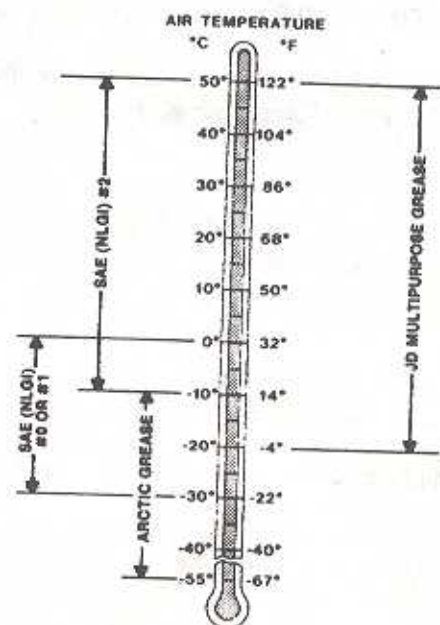
CAUTION: Before lubricating snow thrower, disengage PTO, stop engine and remove ignition key.

Depending upon the expected air temperature range during the service interval, use grease as shown on the adjoining temperature chart.

John Deere Multipurpose Grease is recommended. If other greases are used, use:

- SAE Multipurpose Grease
- SAE Multipurpose Grease containing 3 to 5 per cent molybdenum disulfide.

At temperatures below -30° (-22°F), use arctic greases such as those meeting Military Specification MIL-G-10924C.



7A0;X9326 M23;LUQA A 030583

ALTERNATIVE LUBRICANTS

Conditions in certain geographical areas may require special lubricants and lubrication practices which do not appear in this operator's manual. If you have any questions, consult your John Deere dealer to obtain the latest information and recommendations.

M23;LUQB B 220684

COLD WEATHER OPERATION

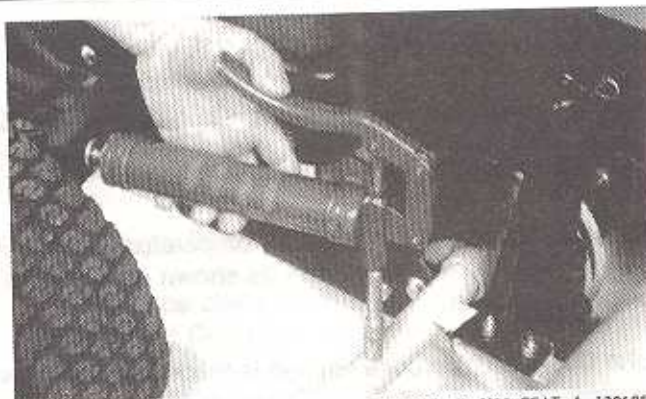
Additional information on cold weather operation is available from your John Deere dealer.

M23;LUQB C 220684

Service/at Beginning of Season

LUBRICATING SNOWTHROWER

1. Lubricate the countershaft with two or three shots of John Deere Multi-Purpose Grease or equivalent.



7A0;M38580 M23;SEAT A 130685

2. Apply multi-purpose grease on worm gear.

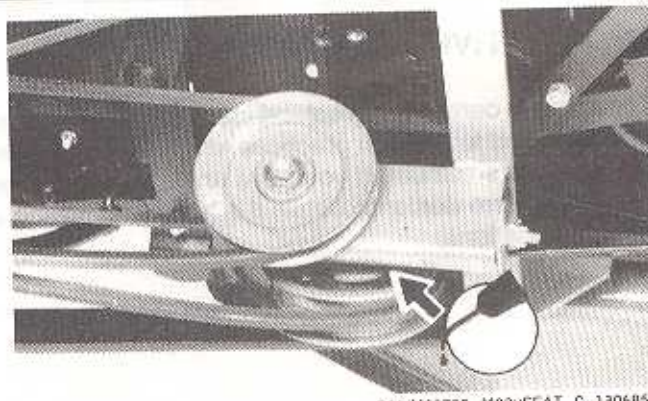


7A0;M38581 M23;SEAT B 130685

LUBRICATING IDLER ARM

IMPORTANT: The idler arm must move freely to maintain proper drive belt tension. Be careful not to get oil on belt.

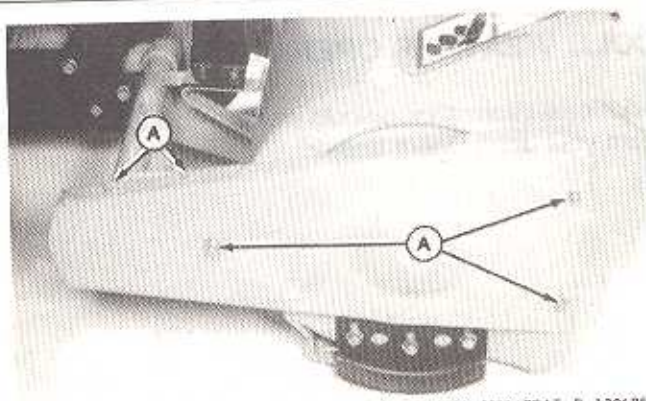
1. Apply several drops of oil on idler arm bearing and all pivot points.



7A0;M32705 M23;SEAT C 130685

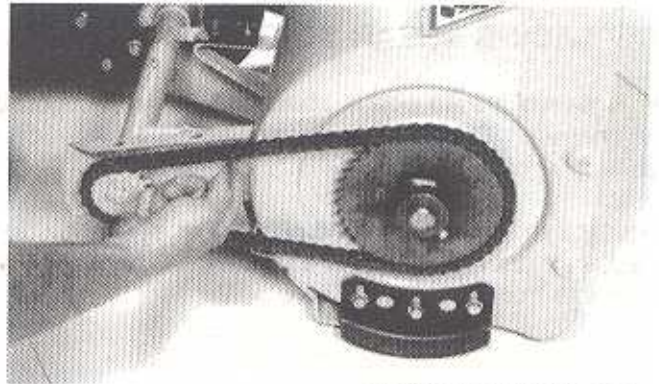
ADJUSTING DRIVE CHAIN

1. Remove cap screws and nuts (A) to remove shield.



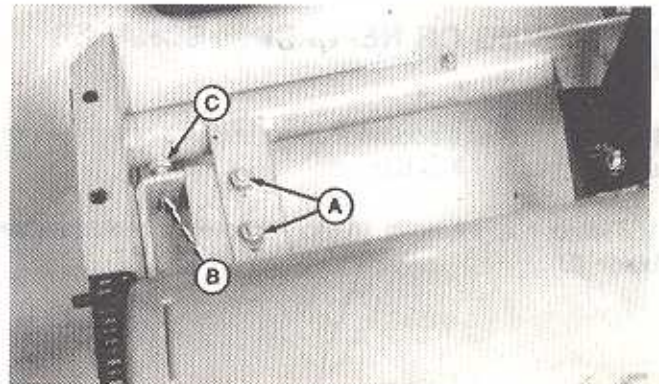
7A0;M38582 M23;SEAT D 130685

2. Check for 1/8 to 1/4 in. (3 to 6 mm) chain sag at midpoint of chain.



7A0;M38583 M23;SEAT E 130685

3. To adjust chain tension, loosen nuts (A) and nut (B).
4. Tighten or loosen adjusting bolt (C) until chain tension is correct.
5. Tighten nut (B) and nuts (A) after adjusting.
6. Install shield.



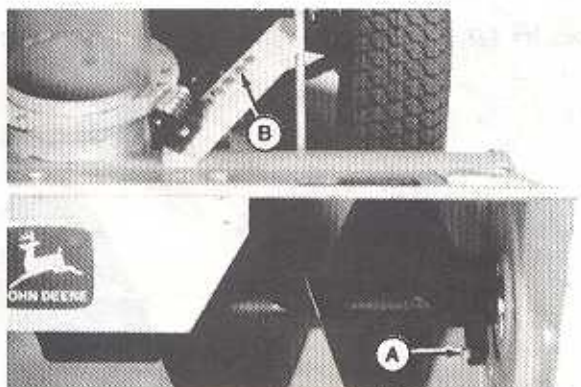
7A0;M38584 M23;SEAT F 090785

Service/as Necessary

REPLACING SHEAR BOLT

If auger hits a solid object, shear bolt (A) will shear. Auger will then stop. Disengage PTO immediately, stop tractor, and shut off engine.

Replace shear bolt (A) with one of the extra shear bolts (B). Replace extra shear bolts as they are used. (Shear bolts are available from your John Deere dealer.)

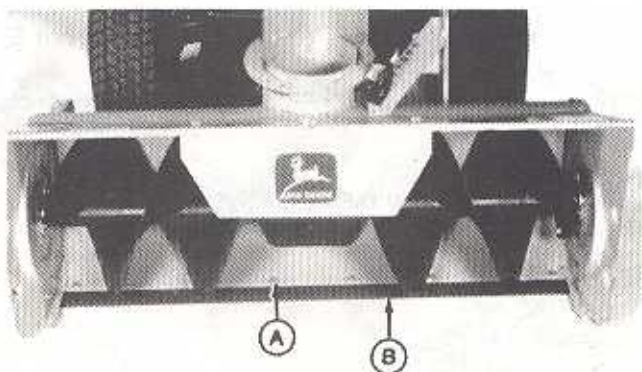


7A0;M38585 M23;SEAT G 130685

REVERSING OR REPLACING SCRAPER BLADE

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

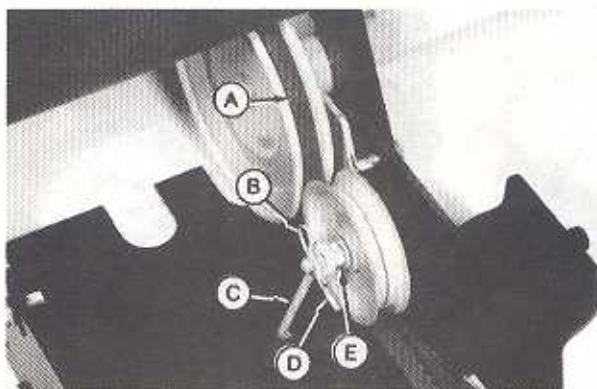
1. Remove eight bolts (A) to reverse or replace scraper blade (B).



7A0;M38586 M23;SEAT H 130685

REPLACING DRIVE BELT

1. Remove spring locking pin (B) and washer.
2. Remove idler rod (C).
3. Loosen nut (E) to remove belt (A).
4. Install new belt around sheaves. Be sure belt is between belt guide (D) and sheave.
5. Tighten nut (E) making sure belt guide (D) is perpendicular to idler sheave.
6. Install idler rod (C).
7. Install washer and spring pin (B).

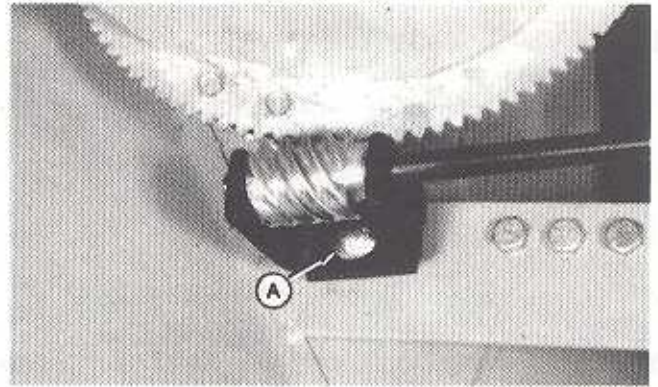


A—Belt
B—Spring Locking Pin
C—Idler Rod
D—Belt Guide
E—Nut

7A0;M38587 M23;SEAT I 130685

ADJUSTING CHUTE WORM GEAR

1. Loosen bolt (A). Move worm gear so teeth in discharge chute mesh with worm.
2. Tighten bolt to keep worm gear in place.



7A0;M38588 M23;;SEAT J 130685

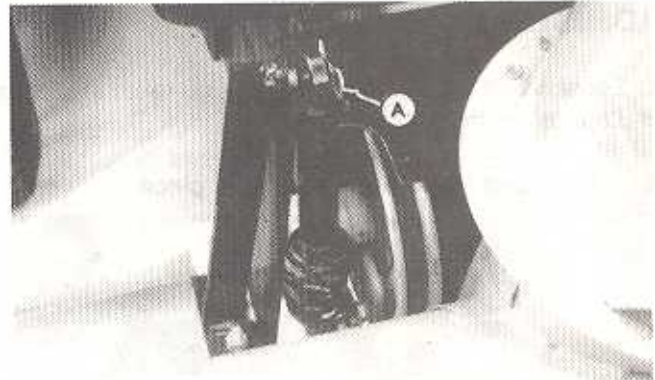
11
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Removal

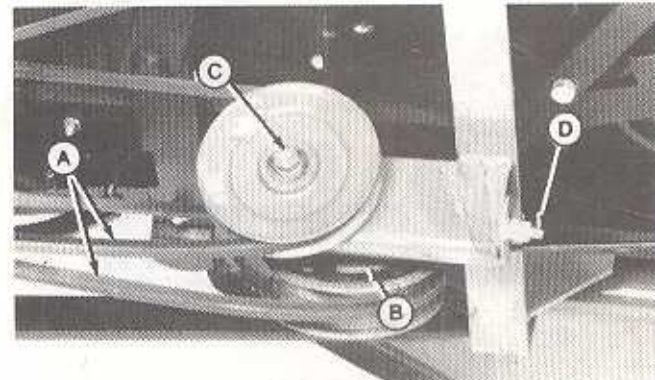
REMOVING SNOWTHROWER

1. Park snowthrower on a level surface. *Raise Blower*
2. Lock park brake.
3. Stop engine.
4. Remove ignition key.
5. Remove spring locking pin (A) to disconnect gas spring assembly.



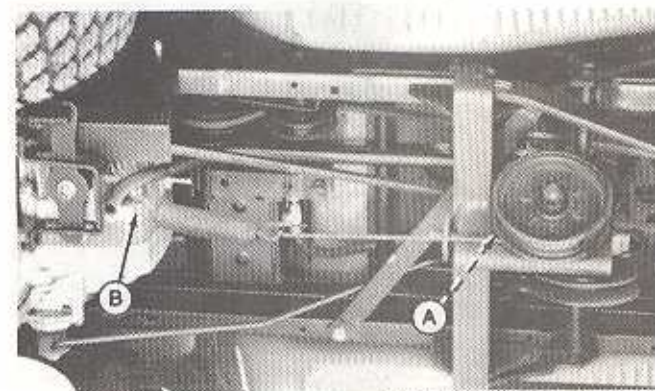
7A0;M38568 M23;REAT A 090785

6. Loosen idler bolt (C). *9/16"*
7. Loosen lock nut. Turn hex nut on adjusting bolt (D) until idler arm (B) is loose. *1/2"*
8. Remove belt (A) from sheaves.
9. Lower snowthrower to surface.



7A0;M32703 M23;REAT B 130685

10. Disconnect spring (B) and link from idler arm (A).



7A0;M32540 M23;REAT C 130685

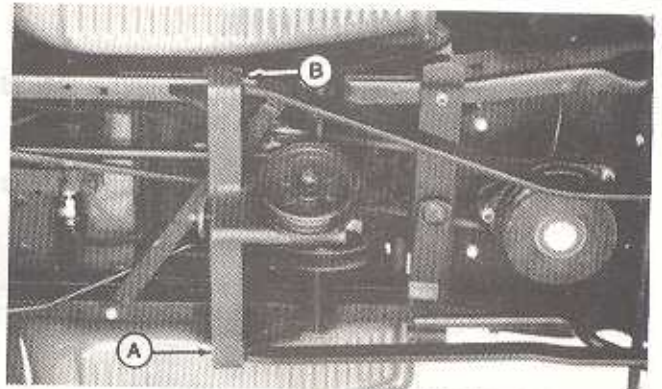
11. Remove spring locking pin (A) to disconnect lift rod from lift lever.



7A0;M38567 M23;REAT D 130685

Removal

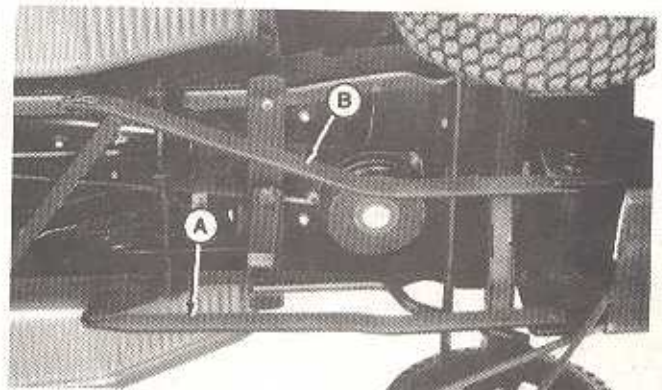
12. Remove idler assembly from bracket pins (A and B).



7A0;M32539 M23;;REAT E 090785

13. Remove four spring locking pins fastening left and right braces (A and B). Disconnect braces from snowthrower mount and front draft brackets.

14. Remove snowthrower and braces.

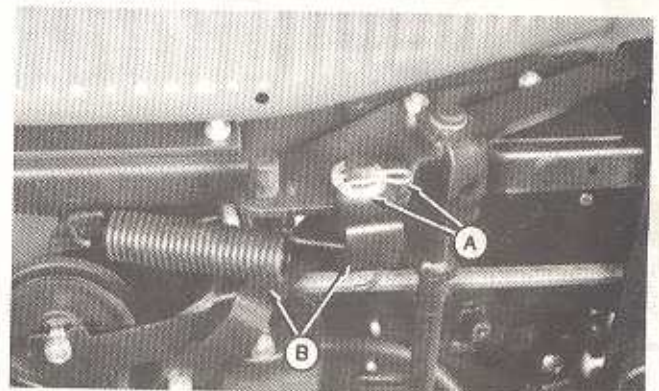


7A0;M32542 M23;;REAT F 130685

15. Install lift assist spring (B) and fasten with washer and spring locking pin (A).

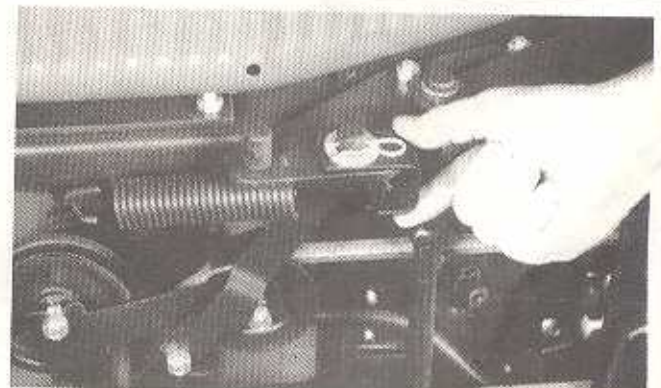
Raise Lift Control

On Right Side



7A0;M38566 M23;;REAT G 090785

16. Pull bracket up to lock tension spring in place.



7A0;M38565 M23;;REAT H 130685

Storage

STORING SNOWTHROWER

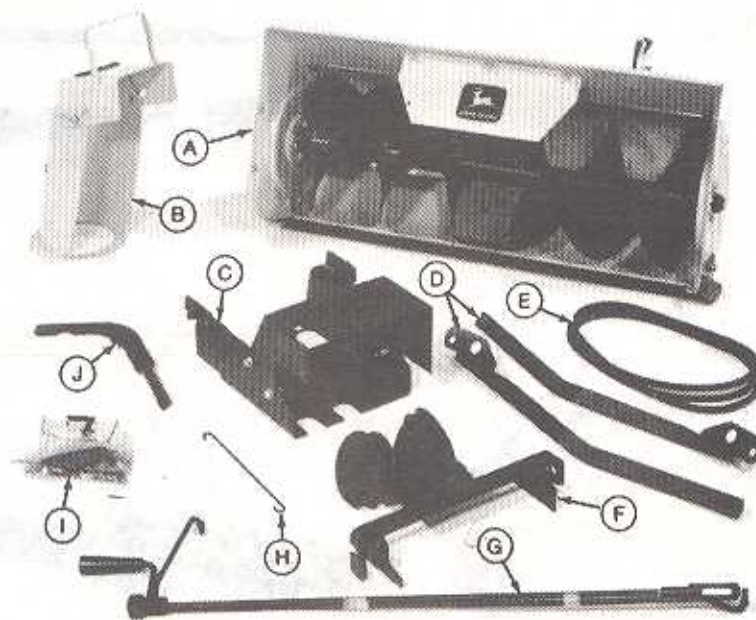


CAUTION: DO NOT work under a raised snowthrower unless it is blocked correctly.

1. Clean the snowthrower with water pressure from a hose.
2. Check snowthrower parts. Repair or replace worn, bent, or damaged parts.
3. Apply paint to areas that need it to prevent rust.
4. Lubricate pivot points with engine oil.
5. Store snowthrower on hard, level surface.
6. Put a waterproof cover over snowthrower if you store it outdoors.

Assembly

UNPACK SHIPPING BOX



1. Remove snowthrower and parts from box. Use a safe lifting device to remove snowthrower.

Identify all parts and report any shortages.

A—Snowthrower
B—Discharge Chute
C—Mount Assembly

D—Braces
E—Belt
F—Idler Assembly

G—Lift Rod and
Chute Control
H—Idler Link

I—*Bag of Parts
J—Gas Spring
(Fastened to
Lift Rod)

*Bag of Parts Contains:

Reflective Tape (2 used)
Lock Nut, 1/2 in. (2 used)
Spring Locking Pin (5 used)
Pivot Bearing (2 used)
Lock Nut, 5/16 in. (2 used)
Idler Link
Spring
Large Chute Clip (3 used)
Small Chute Clip (3 used)
Screw, No. 10 x 0.50 in. (6 used)
Headed Pin (2 used)
Cap Screw, 1/2 x 1-1/2 in. (2 used)

Wrought Washer, 0.531 x 1.062 x 0.090
in. (2 used)
Flat Washer, 0.406 x 0.812 x 0.060 in.
Flat Washer, 0.344 x 0.750 x 0.075 in.
Carriage Bolt, 5/16 x 3/4 in.
Ball Joint Stud
Cotter Pin, 0.094 x 0.75 in. (2 used)
Flat Washer 0.060 x 13/32 x 11/16 in.
Gas Spring Boot

INSTALL GAS SPRING

1. Remove gas spring from lift rod.



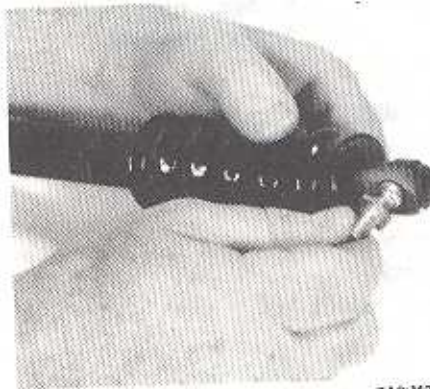
7A0;M38608 M23;ASAT B 130685

2. Install boot (A) over cylinder rod end.



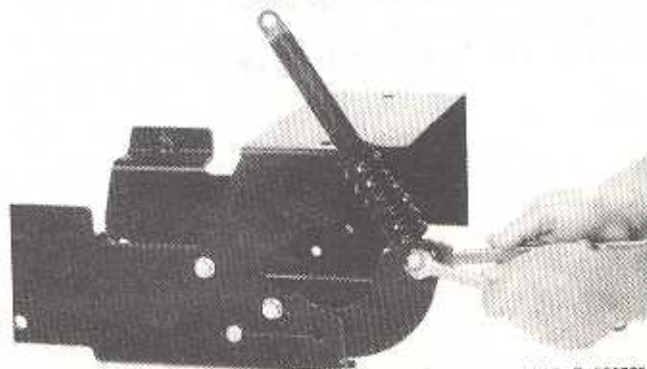
7A0;M38609 M23;ASAT C 130685

3. Install ball joint stud in rod end.



7A0;M38610 M23;ASAT D 130685

4. Fasten gas spring to center hole in mount support. (See Adjusting Lift in Operating the Snowthrower section for operating adjustment.)

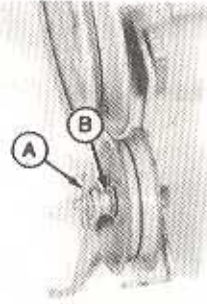


7A0;M38612 M23;ASAT E D90785

INSTALL BELT, MOUNT, AND GAS SPRING

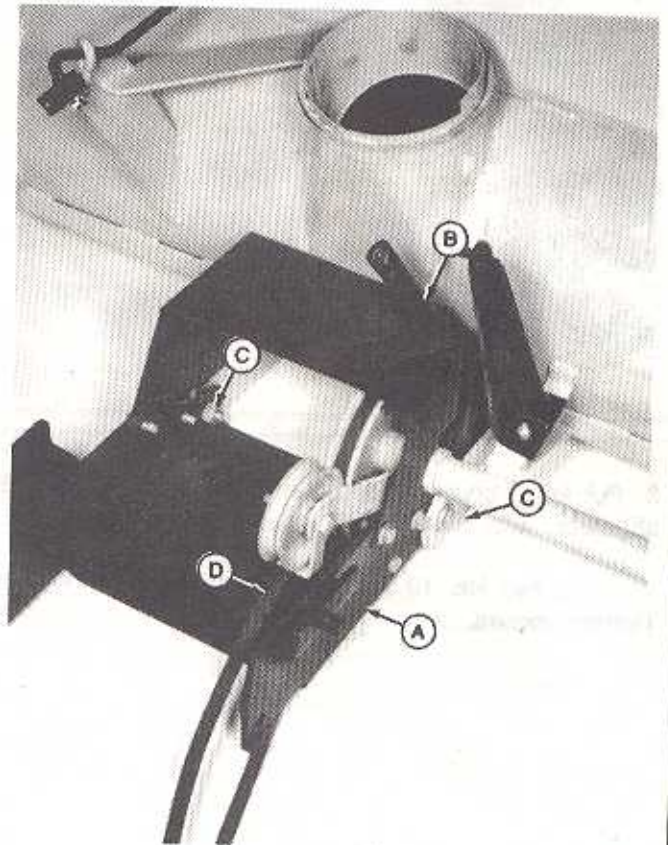
1. Remove spring locking pin (A), flat washer and idler rod.
2. Loosen nut (B).

Belt M134268



7A0;M38590 M23;ASAT F 130685

3. Fasten mount (A) and gas spring (B) with pivot bearings, wrought washers, 1/2 x 1-1/2-in. cap screws, and lock nuts (C).
4. Install belt (D) around sheave. Belt must be between sheave and belt guide.

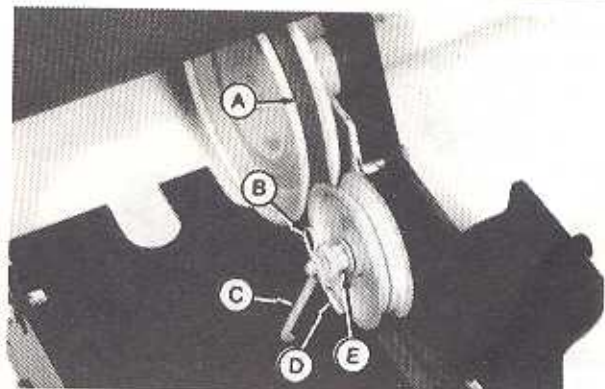


7A0;M38591 M23;ASAT G 110685

5. Hold belt guide (D) perpendicular to idler sheave and tighten nut (E).
6. Fasten idler rod (C) in hole in mount and assemble over idler bolt.
7. Install flat washer and spring locking pin (B).

A—Belt
B—Locking Pin
C—Idler Rod

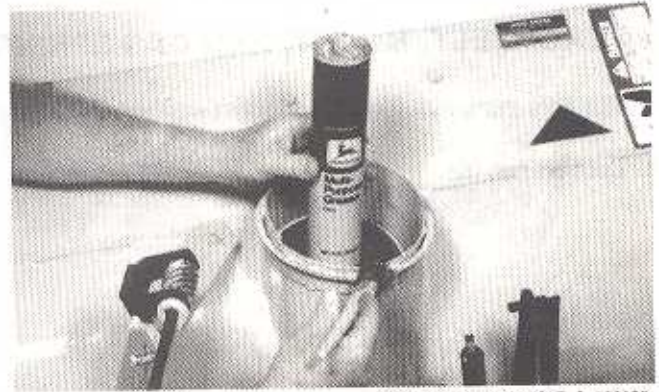
D—Belt Guide
E—Nut



7A0;M38587 M23;ASAT H 090785

INSTALL DISCHARGE CHUTE

1. Apply multi-purpose grease or equivalent on chute base.



7A0;M38592 M23;ASAT J 130685

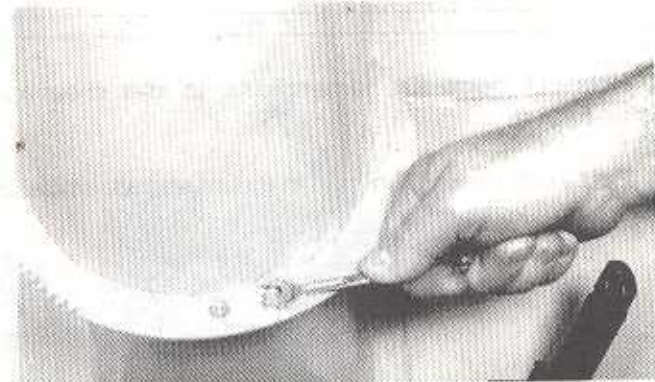
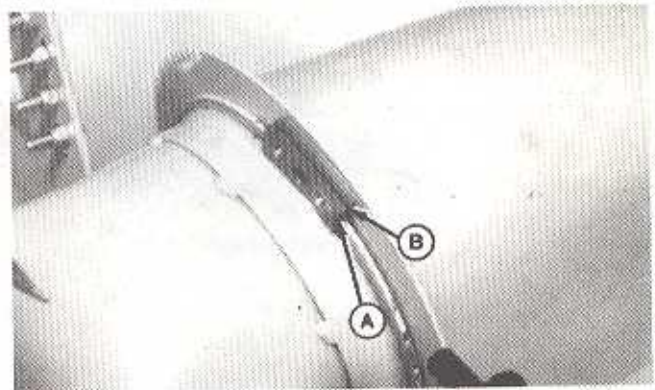
2. Put discharge chute (A) on base.



7A0;M38593 M23;ASAT J 130685

3. Put small chute clips (A) and large chute clips (B) in alignment with two holes (3 locations) in chute rim.

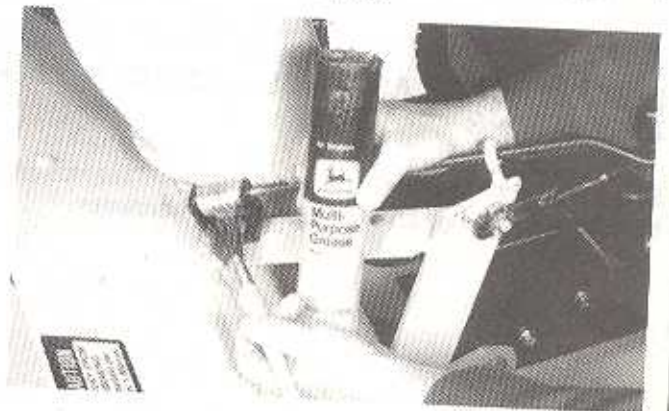
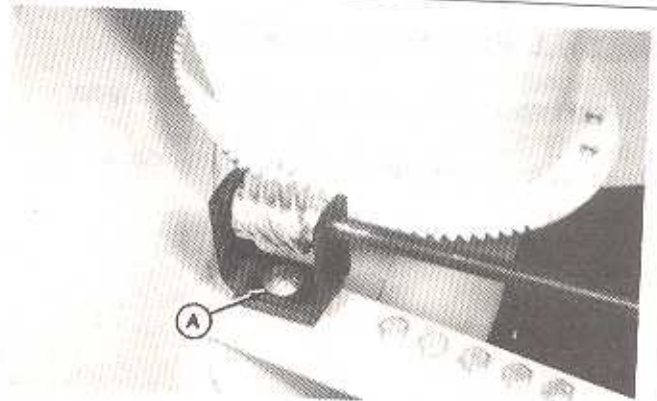
4. Install two No. 10 screws through chute rim and clips. Tighten screws.



7A0;M38594 M38595 M23;ASAT K 130685

INSTALL CHUTE CONTROL WORM GEAR

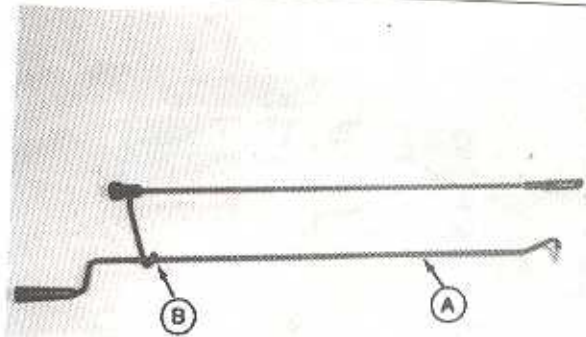
1. Fasten worm gear to support with a 5/16 x 3/4 in. carriage bolt (A) and lock nut. Engage gear teeth with chute teeth. Tighten nut.
2. Apply multi-purpose grease on worm gear.



7A0/M38596 M38581 M23/ASAT L 230685

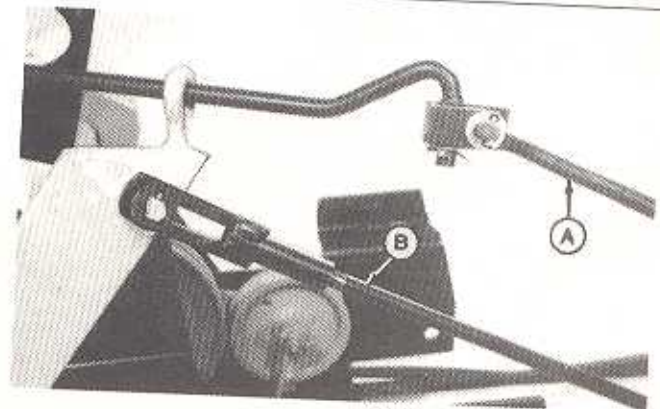
INSTALL CHUTE CONTROL AND LIFT ROD

1. Install chute control rod (A) through lift-rod hold (B).



7A0/M38597 M23/ASAT M 090785

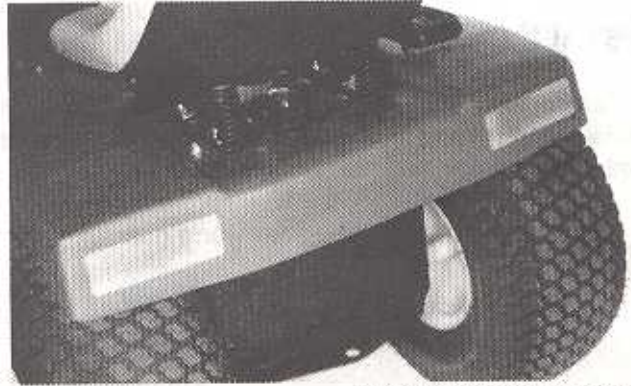
2. Connect discharge chute control rod (A) and lift rod (B). Fasten rods with washers and cotter pins.



7A0/M38598 M23/ASAT N 090785

INSTALL REFLECTIVE TAPE

1. Peel backing off two pieces of reflective tape.
2. Install tapes on rear of tractor fender deck.



7A0;M38630 M23;ASAT N1 130685

INSTALL IDLER ASSEMBLY, BRACES, LINK AND SPRING

See installation section for installing the idler assembly, braces, link, spring, and miscellaneous hardware.

M23;ASAT 0 130685

Specifications

John Deere Tractor	Model 130, 160, 165, 180, 185
Clearing Width	38 in. (96.5 cm)
Height to Top of Spout	33 in. (83.8 cm)
Length	28 in. (71.1 cm)
Auger Bearings	Sealed ball bearings
Discharge Chute Turning Radius	190 degrees
Height of Lift	4-1/2 in. (11.4 cm)
Auger Speed (Engine rpm at 3400)	1000 rpm
Thrower Drive	V-belt
Auger Drive	Roller chain
Auger Diameter	12 in. (30.5 cm)
Net Weight	170 lb (77 kg)

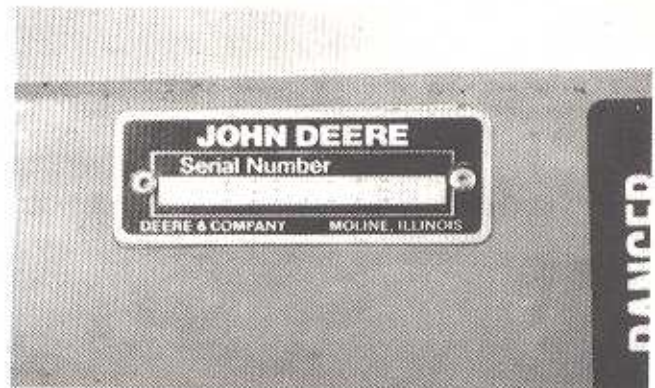
(Specifications and design subject to change without notice.)

M23::SPAT A 090785

RECORDING SERIAL NUMBER

Write your snowthrower serial number below. Your dealer needs this number when you order parts.

Serial Number M00246X537036



7A0;M38563 M23::SPAT B 130685

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Title	Order No.	Qty.	Price Each
Parts Catalog 38-Inch Snowthrower	PC-1009		\$2.25
Operator's Manual 38-Inch Snowthrower	OM-M89683		\$1.25

NOTE: If you want manuals or catalogs for equipment not shown on this list, list the model number, serial number and name of the equipment below.

FOS COMPACT EQUIPMENT MANUALS

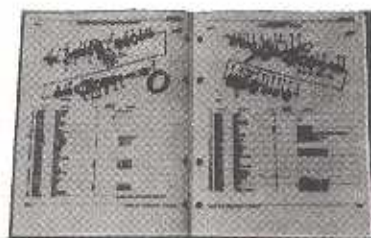
FCP-80101B	Engines	\$11.05
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Illinois State Residents add 6% for ROT ☐

Check or money order in U.S. dollars enclosed . . . Total _____
(Do not send cash or stamps)

Prices listed will be effective until 31 December 1985.

PARTS CATALOG



A parts catalog containing exploded view illustrations and lists of all parts is useful when purchasing service parts. Helps identify the correct parts. Useful in assembling and disassembling.

OPERATOR'S MANUAL



An extra copy of the operator's manual may be important if the copy furnished with your machine is misplaced.

FOS MANUALS ON COMPACT EQUIPMENT



John Deere has made these new books available so you can read and learn the basics of how to service and repair most types of compact tractors and small engine-powered equipment. The fundamentals of how those systems work are shown clearly with hundreds of color illustrations. You can learn about operating principles of engines, electrical systems, power trains, or hydraulic systems. No brands or model numbers are mentioned; only generic principles are covered.



John Deere is at your service when you need it

It is John Deere's objective to train all of their authorized dealer service personnel effectively so they can handle your service needs. Your dealer therefore has service technicians who are trained to give your machine the best of care. We would encourage you to use the service provided by your dealer whenever possible.

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