

**Front Blade  
46-Inch**

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**OPERATOR'S MANUAL**

**OMM141983 I9**

North American Version  
Litho in U.S.A.



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# INTRODUCTION

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## 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.

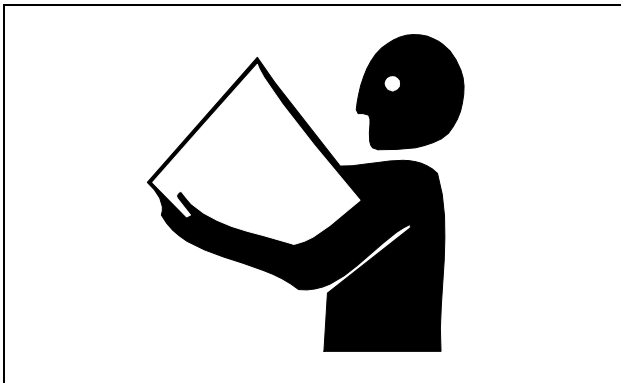


**CAUTION: Avoid injury!**

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

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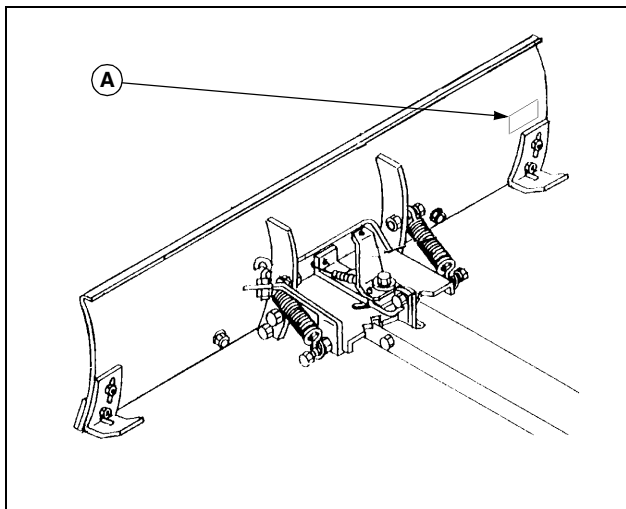
## Record Identification Numbers

### Front Blade for Yard and Garden Tractors

**46-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 identification number for the machine and for the engine. Record the information in the spaces provided below.



DATE OF PURCHASE:

\_\_\_\_\_

DEALER NAME:

\_\_\_\_\_

DEALER PHONE:

\_\_\_\_\_

SERIAL NUMBER (A):

\_\_\_\_\_

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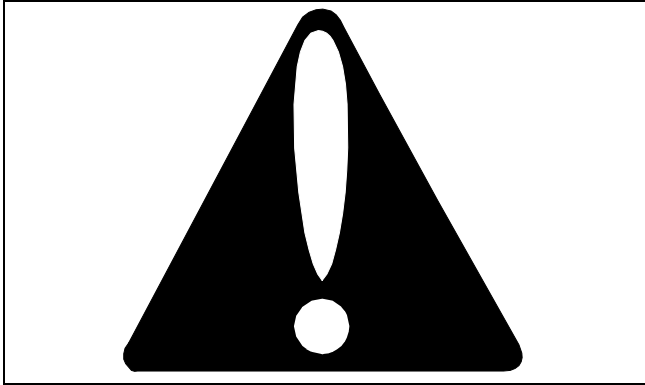
All information, illustrations and specifications in this manual are based on the latest information at the time of publication. The right is reserved to make changes at any time without notice.

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English

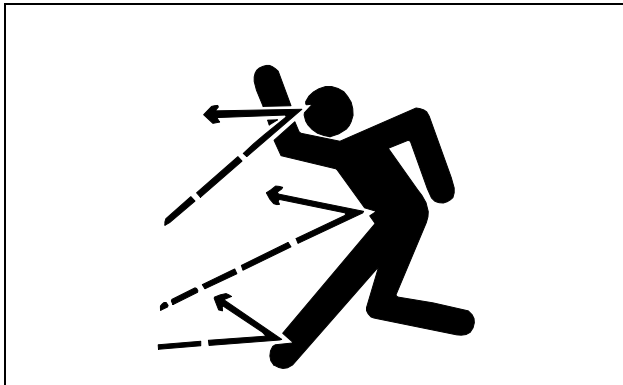
# SAFETY

## Understanding The Safety-Alert Symbol

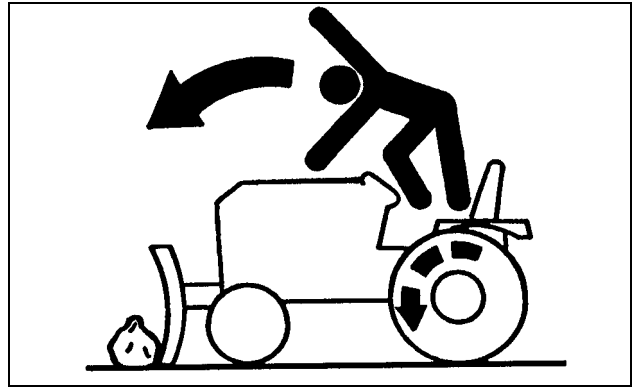


The operator's manual explains any potential safety hazards whenever necessary in special safety messages that are identified with the word, CAUTION, and the safety-alert symbol, (▲).

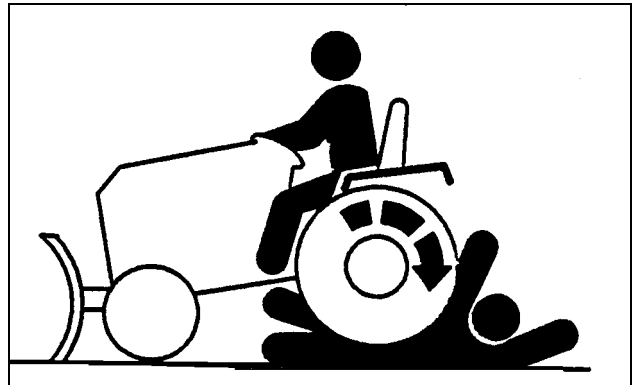
## Operate Safely



- 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 continue to operate. Keep machine and attachments properly maintained and in good working order.
- Raise blade when you are driving between jobs or when you are not moving snow.



- DO NOT leave machine unattended when it is running.
- DO NOT operate tractor at high speeds.
- DO NOT use blade as a battering ram.
- Look carefully behind tractor before you back up.
- DO NOT let anyone, ESPECIALLY CHILDREN, ride on machine or vehicle.



- DO NOT let children or untrained person operate machine.
- Only operate during daylight or with good artificial light.
- Be careful of traffic when operating near or crossing roadways.
- Do not wear radio or music headphones while operating the machine. Safe operation requires your full attention.
- DO NOT operate equipment when you are tired, ill, or under the influence of drugs or alcohol.

## Park Safely

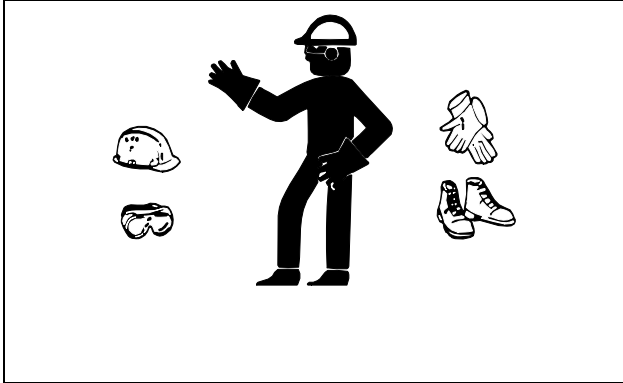
- Stop machine on a level surface, not on a slope.
- Disengage mower blades.
- Lower blade to the ground.
- Engage park brake.
- STOP engine.
- Remove key.

# SAFETY

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- Before you leave the operator's seat, wait for engine and all moving parts to STOP.

## 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.

# PREPARING VEHICLE

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## **Remove Mower Deck**

Tractor mower deck must be removed from before installing front blade. See your tractor operator's manual or mower deck manual for removal instructions.

## **Ballasting Requirements**

Follow these recommendations to help improve traction:

- Install tire chains on turf tires or install bar tires on the tractor.
- Install rear wheel weights.

Ballast weights can be purchased from your Authorized Service Center. See your tractor operator's manual for further information.

## **Check Tire Pressure**

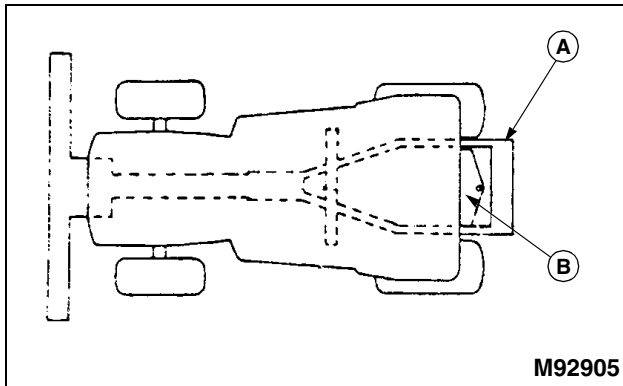
See your tractor's operator's manual for proper tire pressures.

# INSTALLING

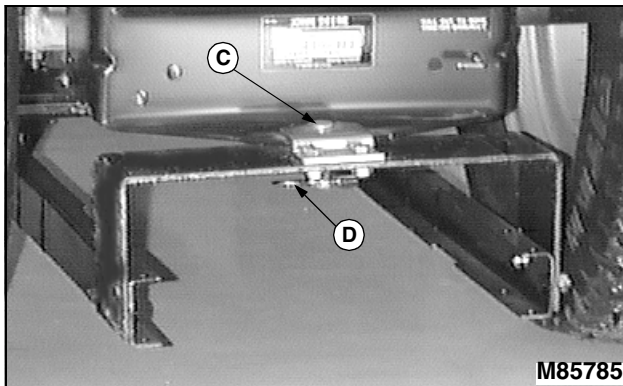
## Park Vehicle Safely

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

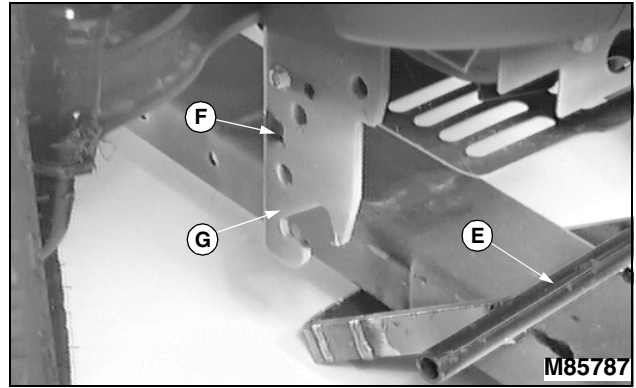
## Install Blade to Tractor



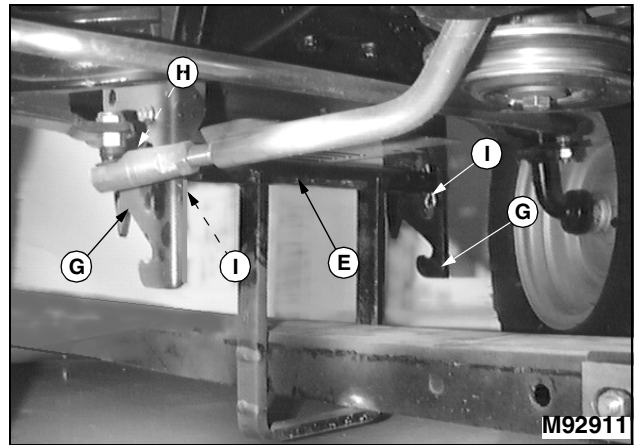
1. Release park brake, put gear transmission in neutral or pull out free-wheeling lever and push tractor forward until rear mounting bracket (A) of blade assembly is behind drawbar (B) of tractor.
2. Engage park brake.
3. Raise rear of blade frame and slide onto drawbar of tractor.



4. Fasten with clevis pin (C) and spring locking pin (D).



5. Align the front stabilizer bracket (E) with square hole (F), one on each side of mower mounting brackets (G).



6. Insert front stabilizer pin (H), one on each side, into square hole of mower mounting brackets and then into front stabilizer bracket (E). Fasten with spring locking pins (I).

## Install Lift Links to Blade Frame and Lift Arms

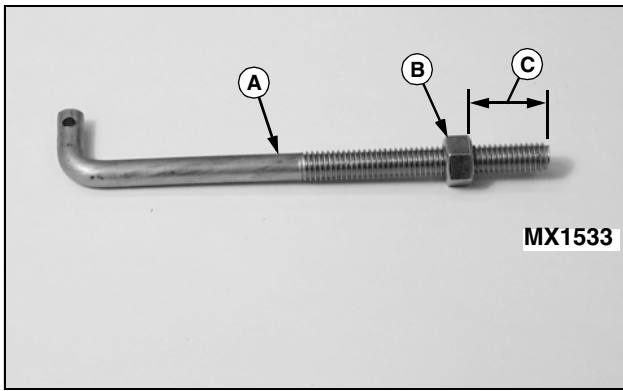


**CAUTION:** Avoid injury! Lift lever is under tension. Grasp lift lever securely and release lock mechanism slowly.

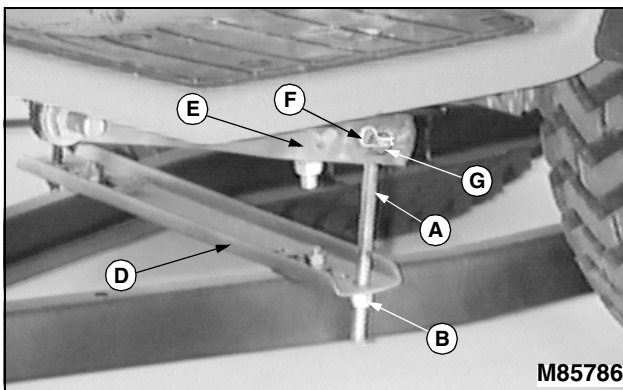
1. Put lift lever in the TRANSPORT (upper) position. Rotate cutting height adjustment knob to "1" position. LOCK lift lever in mowing (LOWER) position.



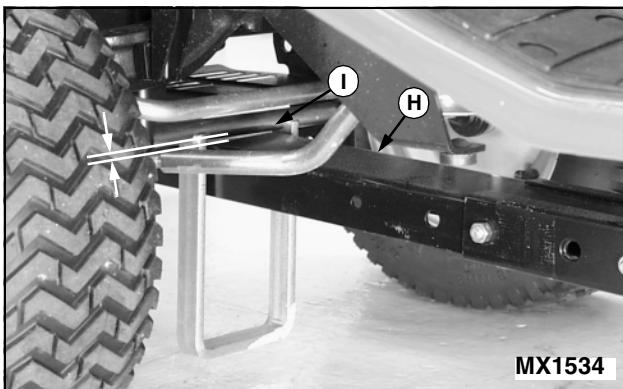
# INSTALLING



2. Pre-set position of 3/8 in. nylock nut (B) on both lift links (A) by threading nuts onto links approximately 32 mm (1.25 in.) (C).

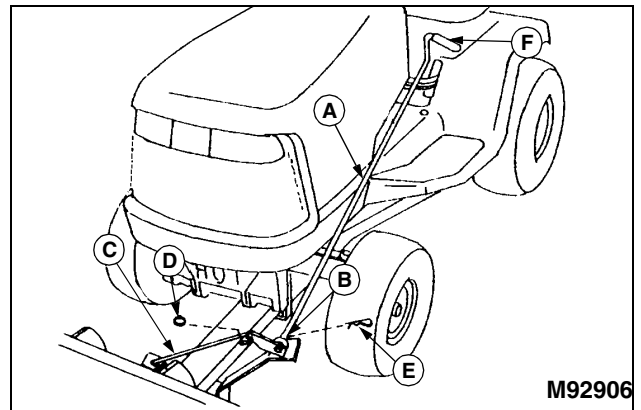


3. Insert bent end of lift links (A) up through holes in lift channel (D) and through holes in lift arms (E).
4. Fasten bent ends of lift links to lift arms with washer (G) and spring locking pin (F).
5. Place mower lift lever into transport (upper) position.



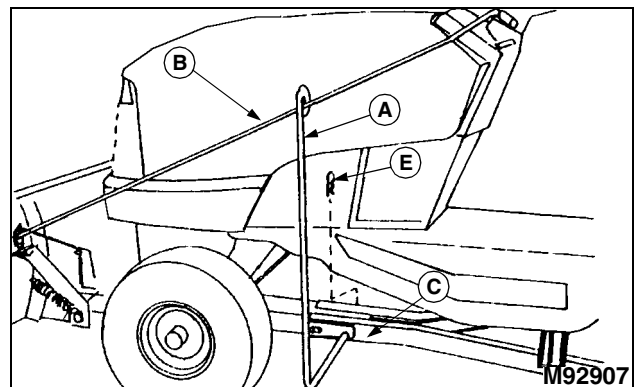
6. Tighten both 3/8 nylock nuts evenly until thrust channel (H) just touches the front stabilizer bracket (I).
7. Operate mower lift lever several times and make sure blade can be lifted and locked into the transport position.

## Install Pivot Control Handle



1. Insert handle end of pivot control handle (A) through 2-inch eye bolt (B) and slide it all the way to bracket end of pivot control handle.
2. Hook pivot release rod (C) into hole of bracket at end of pivot control handle and fasten with spring clip (D).
3. Lay pivot control handle along side of tractor onto wheel and footrest of tractor. Make sure hook of bracket on end of pivot control handle is to the right of the 2-inch eye bolt.
4. Slide 7/16 inch flat washer onto handle end of pivot control handle and slide all the way to 2-inch eye bolt.
5. Install spring locking pin (E) through pivot control handle to hold washer against 2-inch eye bolt.
6. Install rubber handle grip (F) to handle of pivot control handle.

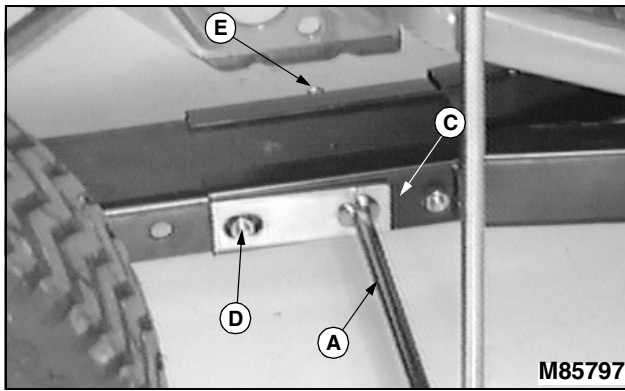
## Install Pivot Control Handle Support Assembly



1. Slide eye of pivot control handle support assembly (A) onto pivot control handle (B).

## INSTALLING

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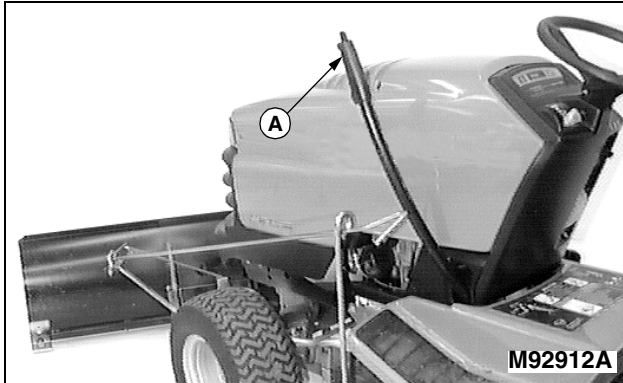


2. Insert pivot control handle support assembly through  $\frac{1}{2}$ -inch hole in thrust channel (C) and place strap over nut (D) of thrust channel. Secure with spring locking pin (E) on opposite side of thrust channel.

# REMOVING

## Park Vehicle Safely

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

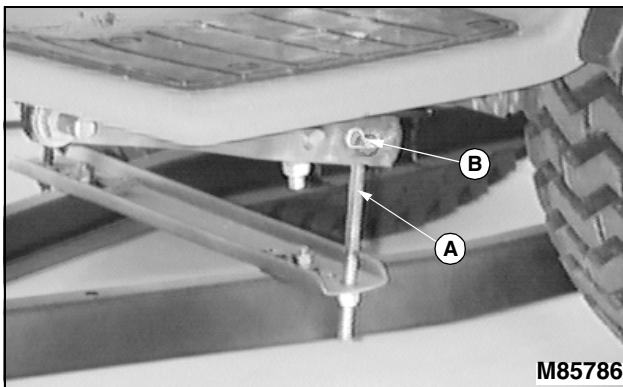


- Push tractor lift lever (A) down lowering blade onto blocks or board and lock lever in lowest position.

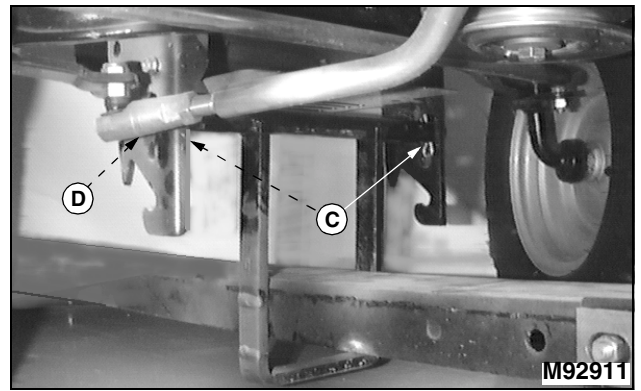
## Remove Blade from Tractor



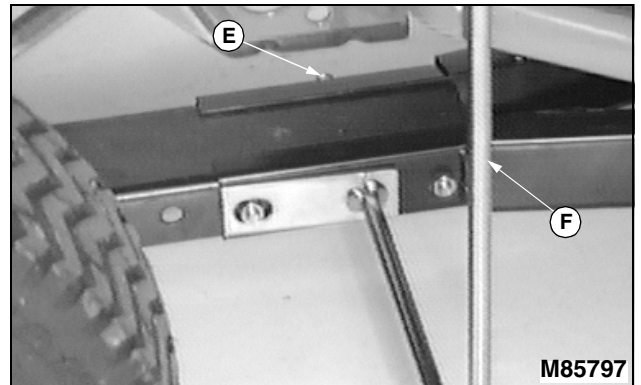
**CAUTION: Avoid injury! Before removing frame assembly: Make sure hands and arms are not under frame assembly.**



1. Remove lift links (A) from lift arms and reinstall spring locking pins and washers (B) to lift links.

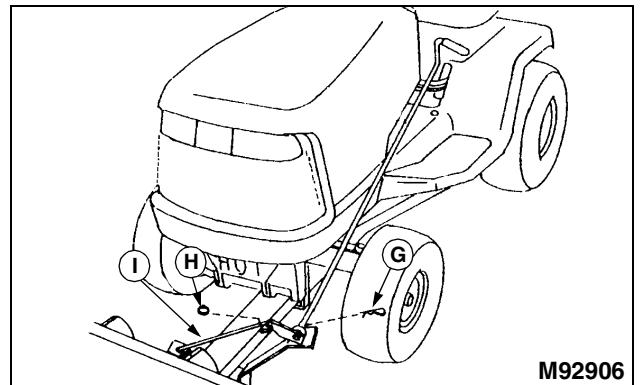


2. Remove spring locking pins (C) and front stabilizer pins (D) and reinstall spring locking pins into stabilizer pins.



3. Remove spring locking pin and washer (E) from pivot control handle support (F) and reinstall spring locking pin and washer to handle support.

4. Remove rubber handle grip and slide pivot control handle support off of pivot control handle.

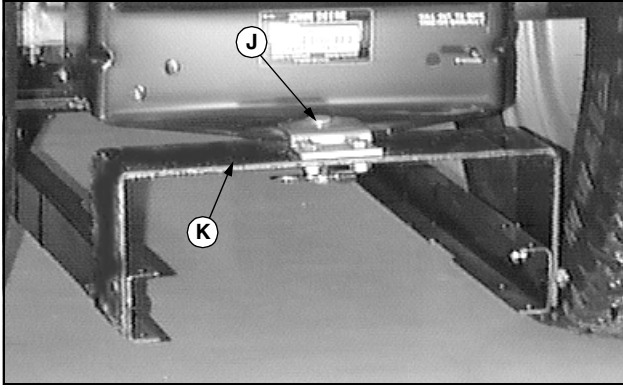


5. Remove spring locking pin (G) and spring clip (H) and unhook pivot release rod (I) from pivot control handle. Reinstall spring clip and spring locking pin.

6. Remove pivot control handle and reinstall rubber handle grip.

## REMOVING

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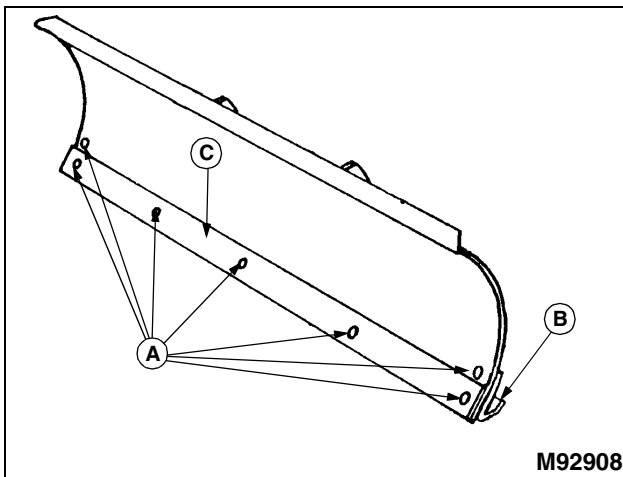
7. Remove clevis pin (J) from tractor drawbar (K) and lower frame assembly to the ground.
8. Remove blade assembly from under tractor.

# OPERATING

## Before Operating Blade

1. Learn all controls and how they work. Read your tractor's Operator's Manual, if necessary.
2. LOCK park brake.
3. STOP engine.
4. Remove key.
5. Make operating adjustments as necessary.
6. Tighten loose hardware.

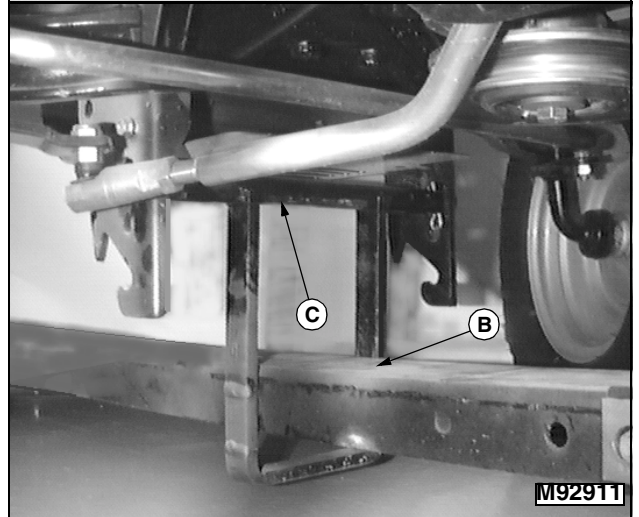
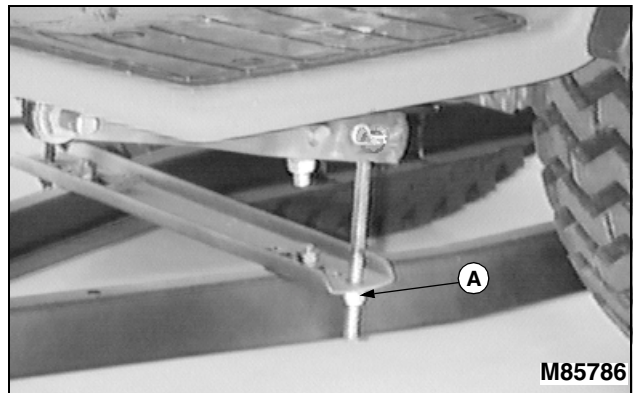
## Adjusting Scraper Blade



1. When scraper blade becomes worn, remove seven 5/16 carriage bolts and seven 5/16 nylock nuts (A) to remove skid shoes (B) and scraper blade (C).
2. Turn scraper blade over and reassemble scraper blade and skid shoes. This will double scraper blade life.

## Adjusting Lift Height

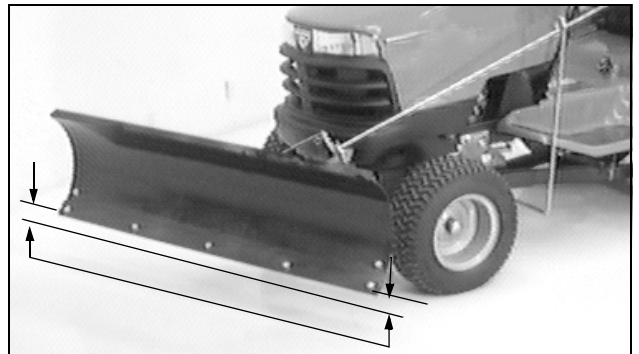
1. Park tractor on a level surface.
2. Place the mower lift lever in the transport (upper) position.



3. Tighten both 3/8 nylock nuts (A) evenly until thrust channel (B) just touches the front stabilizer bracket (C).

## Leveling Blade from Side to Side

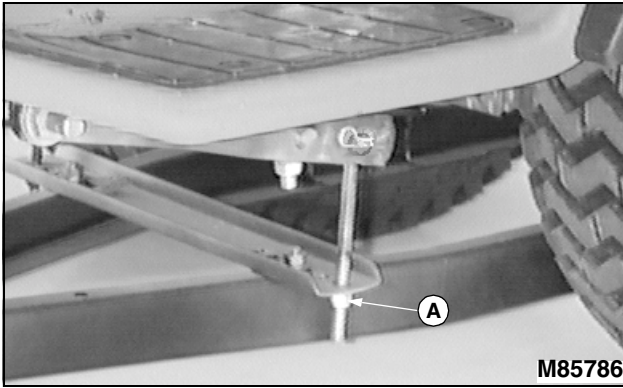
1. Park tractor on a level surface.
2. Raise blade and lock lift lever in the TRANSPORT (upper) position.



3. Measure at each end of blade.



# OPERATING



**NOTE:** Do not adjust nut of lift link up more than two turns without lowering opposite side lift link.

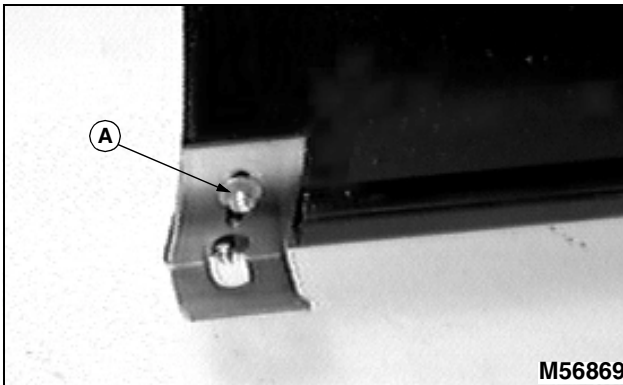
4. If one side of blade is low, adjust nut (A) on lift link UP on that side to level blade.

## Adjusting Skid Shoes

When clearing snow on smooth surfaces, skid shoes should be approximately 1/4-inch above ground level.

When clearing snow on uneven sidewalks, skid shoes should keep blade above ground level. Height above ground level should be based on the unevenness of your surface.

1. Park tractor on a level surface.
2. Raise lift lever to the TRANSPORT (upper) position.
3. Place a block of wood beneath each end of the blade.
4. Lower blade onto blocks of wood.



5. Loosen nuts (A) and adjust skid shoes as necessary. Tighten nuts.

## Raising and Lowering Blade

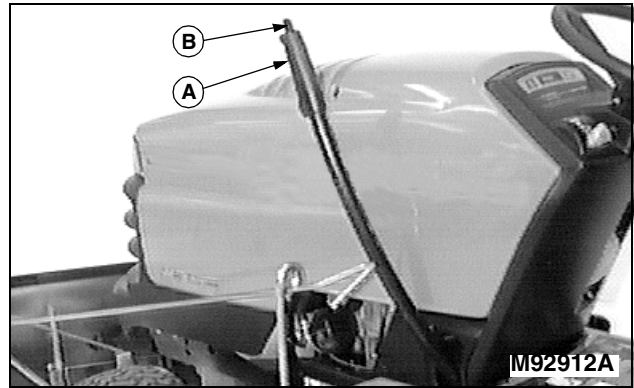


**CAUTION:** Avoid injury: Lift lever under tension. Use caution when raising and lowering blade.

For scraping/snow removal, push lift lever down to the float position, (one notch up from its lowest position).

For transport, pull lift lever back to the highest position.

### TO LOWER BLADE:



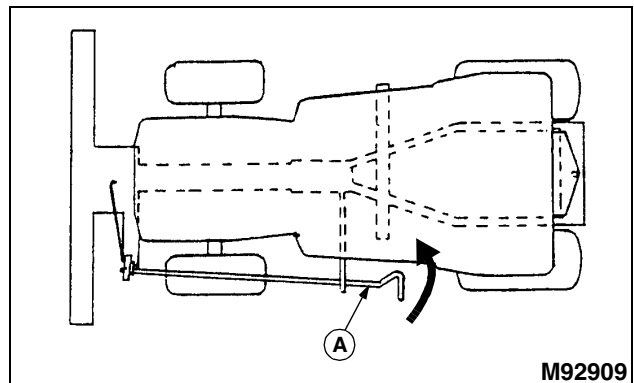
1. Pull lift lever (A) back slightly.
2. Push in button (B).
3. Push lever forward into float position. DO NOT lower lift lever into Lock Position.

### TO RAISE BLADE:

Pull lever back towards you until it LOCKS into the TRANSPORT (upper) position.

## Adjusting Blade Angle

1. Raise blade to the upper (transport) position.



2. Turn control handle (A) counterclockwise and hold.

# OPERATING

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3. Push forward on pivot control handle to angle blade to the right, or pull back on pivot control handle to angle blade to the left.
4. Release pivot control handle to lock in position.
5. Lower blade to the operating (float) position.

## Operating Tips



**CAUTION: Avoid injury! DO NOT use blade as a battering ram. Do NOT operate at a high speed. Hitting a solid object at high speeds can damage the blade and injure the operator.**

Operate blade at slow travel speed.

This blade is designed to move new loose snow in depths up to 6-inches. Blade is not intended to move gravel or dirt.

Operate engine at FULL THROTTLE for best performance, control ground speed using lower gears or foot controls.

### **PUT BLADE ON AN ANGLE:**

- When clearing material to the side.
- To decrease amount of power required to move material.
- To decrease rear wheel slippage.

### **USE BLADE IN STRAIGHT-ACROSS POSITION:**

- To move material straight ahead.

### **AFTER YOU ARE FINISHED USING BLADE:**

- Park tractor on hard, level surface.
- STOP engine.
- LOCK park brake.
- Remove key.
- Put blocks of wood or a board under blade.
- Lower blade onto blocks of wood by pushing lift lever forward until it locks down in lowest position.

# TROUBLESHOOTING

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## Using Troubleshooting Chart

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

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

| IF                       | CHECK                                                                                          |
|--------------------------|------------------------------------------------------------------------------------------------|
| Tractor Engine Lugs Down | Run engine at full throttle.<br>Blade angle.<br>Blade in Float position.<br>Adjust skid shoes. |
| Blade Digs In Too Deep   | Raise blade (Blade should be in FLOAT position).<br>Adjust skid shoes.                         |
| Rear Tractor Wheels Slip | Add rear weights and chains.<br>Blade lowered into LOCK position.                              |



# STORAGE

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## Storing Blade

Clean the blade with water under pressure.

If possible, store blade indoors on hard, level surface.

If you store blade outside:

- Put blocks of wood or a board under blade.
- Cover blade with a waterproof cover.

Inspect blade. Repair or replace badly worn or damaged parts. Check all bolts, nuts, and pins to make sure they are secure.

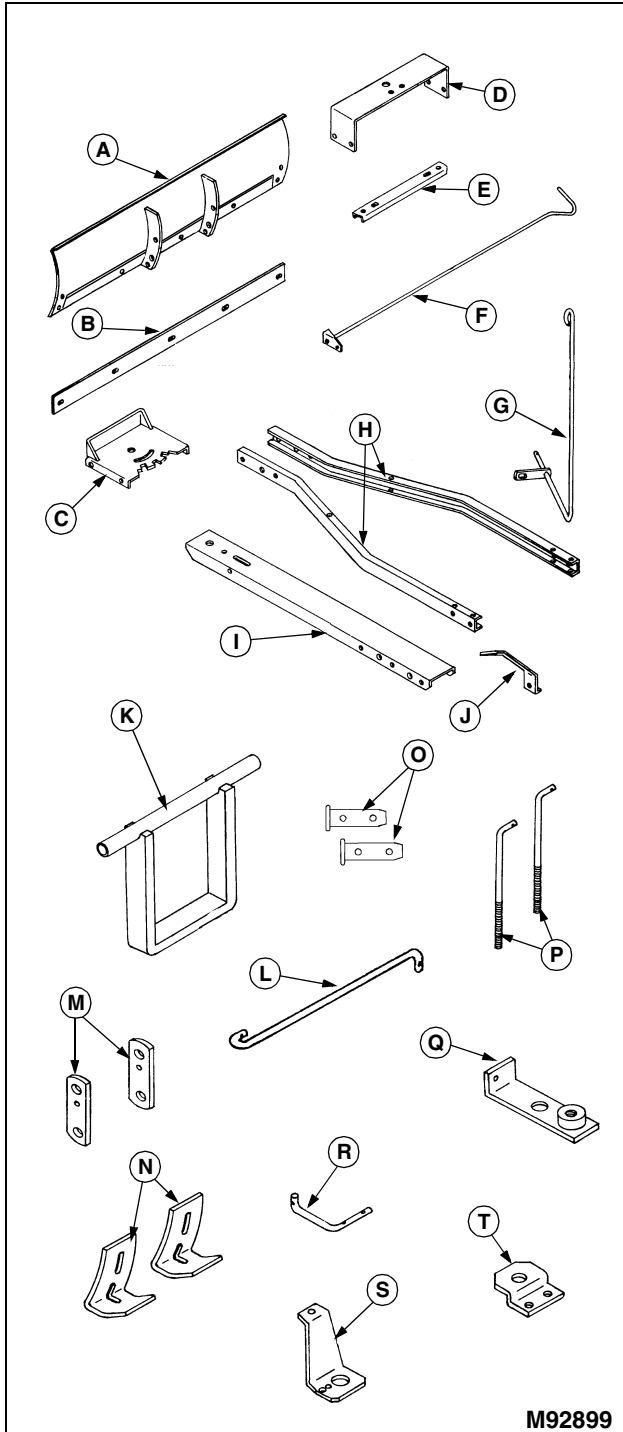
Apply touch-up paint where needed to prevent rust.

Oil all pivot points so that they will work freely.

Grease blade pivot plate, thrust channel, pivot plate reinforcement and pivot release bracket.

# ASSEMBLY

## Box of Parts



M92899

| Key | Description           | Part Number |
|-----|-----------------------|-------------|
| A   | Blade Assembly        | GXH23959    |
| B   | Scraper Blade         | GXH22428    |
| C   | Pivot Plate           | GXH22441    |
| D   | Rear Mounting Bracket | GXH23379    |

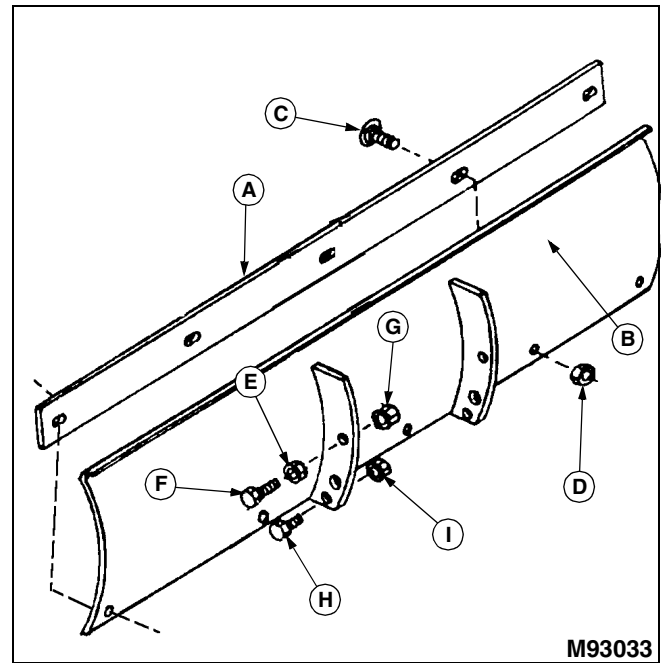
| Key | Description                      | Part Number |
|-----|----------------------------------|-------------|
| E   | Lift Channel                     | GXH23378    |
| F   | Pivot Control Handle             | GXH22892    |
| G   | Pivot Handle Support             | GXH24014    |
| H   | (2) Rear Support Channels        | GXH24008    |
| I   | Thrust Channel                   | GXH22429    |
| J   | Blade Pivot Bracket              | GXH22420    |
| K   | Front Stabilizer Bracket         | GXH23920    |
| L   | Pivot Release Rod                | GXH22480    |
| M   | (2) Straps                       | GXH22748    |
| N   | (2) Skid Shoes                   | GXH23490    |
| O   | (2) Front Stabilizer Pin         | GXH23919    |
| P   | (2) Lift Link 3/8-16 x 5 1/2     | GXH23918    |
| Q   | Pivot Bracket Reinforcement Assy | GXH22745    |
| R   | Pivot Control Rod                | GXH22744    |
| S   | Pivot Release Bracket            | GXH22478    |
| T   | Rear Locating Bracket            | GXH23380    |
|     | Operator's Manual                | M141983     |
|     | Bag of Parts                     |             |

## Bag of Parts

| Qty | Description           | Size                        |
|-----|-----------------------|-----------------------------|
| 2   | Springs               |                             |
| 1   | Full Thread Bolt      | 3/8 x 4 1/2-Inch            |
| 1   | Rubber Handle Grip    |                             |
| 1   | Spring Release Return |                             |
| 1   | Spacer                |                             |
| 2   | Flat Washers          | 3/8-Inch ID x 7/8-Inch OD   |
| 3   | Cotter Pins           |                             |
| 1   | Flat Washer           | 1/2-Inch ID x 2-Inch OD     |
| 2   | Flat Washers          | 3/8-Inch ID x 1 1/2-Inch OD |
| 5   | Carriage Bolts        | 5/16-18 x 3/4-Inch          |
| 7   | Nylock Nuts           | 5/16-Inch                   |

# ASSEMBLY

| Qty | Description                  | Size                            |
|-----|------------------------------|---------------------------------|
| 4   | Hex Head Bolts               | 5/16-18 x 1 1/4-Inch            |
| 2   | Hex Head Bolts               | 5/16-18 x 5/8-Inch              |
| 5   | Flat Washers                 | 7/16 x 1-Inch                   |
| 1   | Med Lock Washer              | 3/8-Inch                        |
| 1   | Nylock Nuts                  | 5/8-Inch                        |
| 1   | Eye Bolt                     | 3/8-16 x 2-Inch                 |
| 2   | Hex Lock Nuts                | 5/16-Inch                       |
| 1   | Hex Head Bolt                | 5/8-11 x 1 3/4-Inch             |
| 2   | Hex Head Bolts               | 1/2-13 x 1 1/4-Inch             |
| 7   | Spring Locking Pins          | .095-Inch DIA x 1 5/8-Inch Long |
| 1   | Flat Washer                  | 21/32 x 1 5/16-Inch             |
| 1   | Hitch Pin                    |                                 |
| 2   | Spring Clips                 | .065-Inch DIA x .72-Inch OD     |
| 1   | Full Thread Bolt             | 3/8-16 x 2-Inch                 |
| 2   | Hex Lock Nuts                | 1/2-Inch                        |
| 17  | Hex Lock Nuts                | 3/8-Inch                        |
| 2   | Carriage Bolts               | 5/16-16 x 1-Inch                |
| 12  | Hex Head Bolts               | 3/8-16 x 3/4-Inch               |
| 8   | Nut and Lock Washer Assembly | 5/16-Inch                       |
| 1   | Hex Head Bolt                | 3/8-16 x 1-Inch                 |
| 2   | Nylock Nuts                  | 3/8-Inch                        |
| 2   | Hex Nuts                     | 3/8-Inch                        |



- Place scraper blade (A) on the bottom front side of the blade assembly (B) and fasten with five 5/16 x 3/4 carriage bolts (C) and five 5/16 Nylock nuts (D).
2. Assemble spring anchor bolts:
    - a. Turn one 5/16 nut and lock washer (E) onto the 5/16 x 1 1/4 hex head bolt with lock washer (F) away from the head of the bolt.
    - b. Insert the bolt and nut assembly (E & F) through hole in rib of blade assembly then assemble with a second 5/16 nut and lock washer assembly (G) onto bolt (F).
    - c. Adjust inside nut and lock washer assembly (G) flush with end of thread on bolt then tighten nut and lock washer (E) against blade rib.
    - d. Assemble second 5/16 x 1-1/4 bolt to opposite side of blade assembly using the same procedure.
  3. Assemble breakover stop bolt:
    - Install one 5/16 x 5/8 hex bolt (H) into bottom hole of each rib on blade assembly and fasten with 5/16 in. lock nut (I).

## Grease

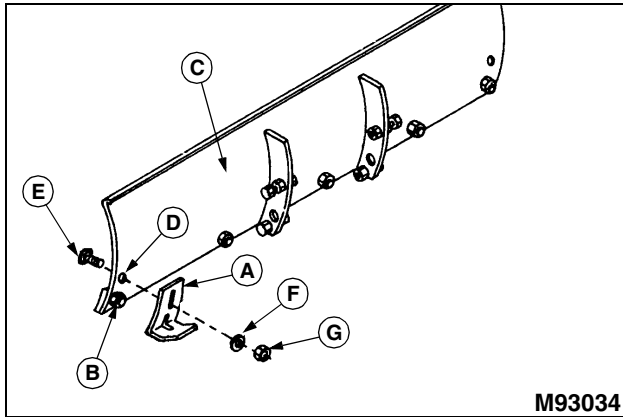
Use a SAE Multi-purpose grease based on the expected air temperature range during the service interval.

## Install Parts to Blade Assembly

1. Assemble scraper blade:

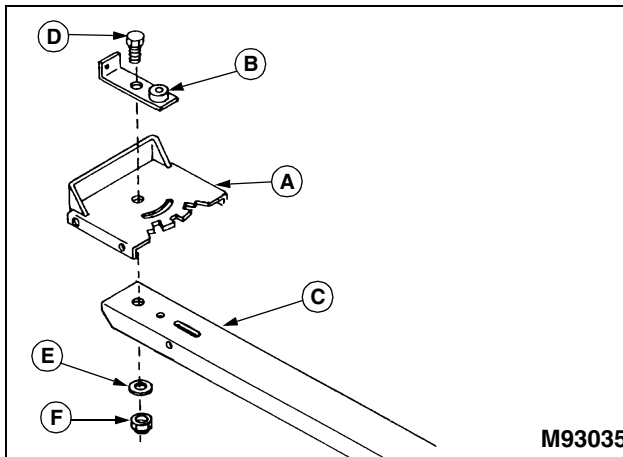
# ASSEMBLY

## Install Skid Shoes to Blade Assembly



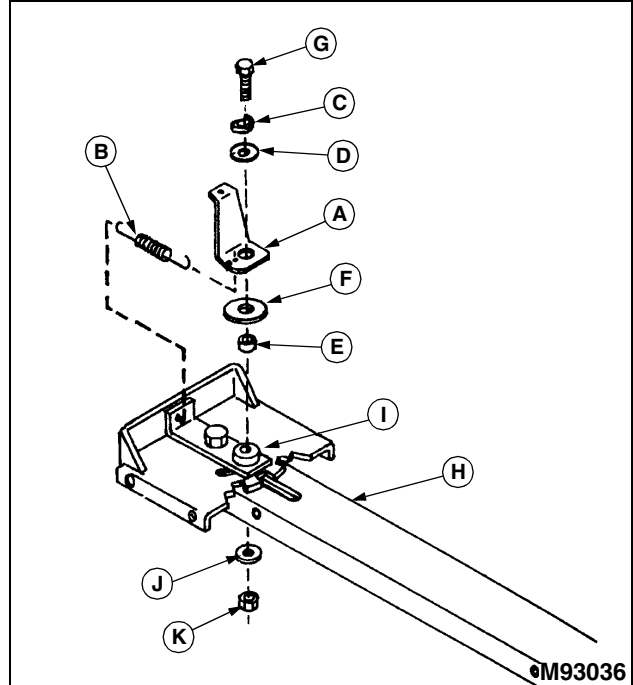
1. Position skid shoe (A) over nut (B) at each end on back side of blade assembly (C).
2. Align hole (D) in blade with center of slot in skid shoe. Fasten with one 5/16 carriage bolt (E), one 3/8 flat washer (F), and one 5/16 Nylock nut (G).

## Assemble Pivot Plate to Thrust Channel



1. Assemble the pivot plate (A) and the pivot plate reinforcement (B) on top of the thrust channel (C).
2. Lubricate thrust channel, pivot plate, and pivot plate reinforcement in areas of contact with light grease.
3. Insert 5/8 x 1-3/4 hex head bolt (D) through the pivot plate reinforcement, pivot plate, and the thrust channel and fasten with 21/32 flat washer (E) and 5/8 Nylock hex nut (F).
4. Loosen 5/8 Nylock hex nut approximately 1/4 turn to allow the assembly to pivot freely.

## Assemble Pivot Release Bracket, Pivot Plate, and Thrust Channel



1. Lubricate large hole and two faces of pivot release bracket (A) with light grease.
2. Assemble pivot release spring (B) into smallest hole of pivot release bracket (A).
3. Place 3/8 lock washer (C), 3/8 x 1-1/2 flat washer (D), pivot release bracket (A), large 1/2 x 2 flat washer (F), and spacer (E) onto 3/8 x 2 full thread bolt (G).

**NOTE: Make sure pivot release bracket and large 1/2 flat washer (F) pivot freely after bolt is tight.**

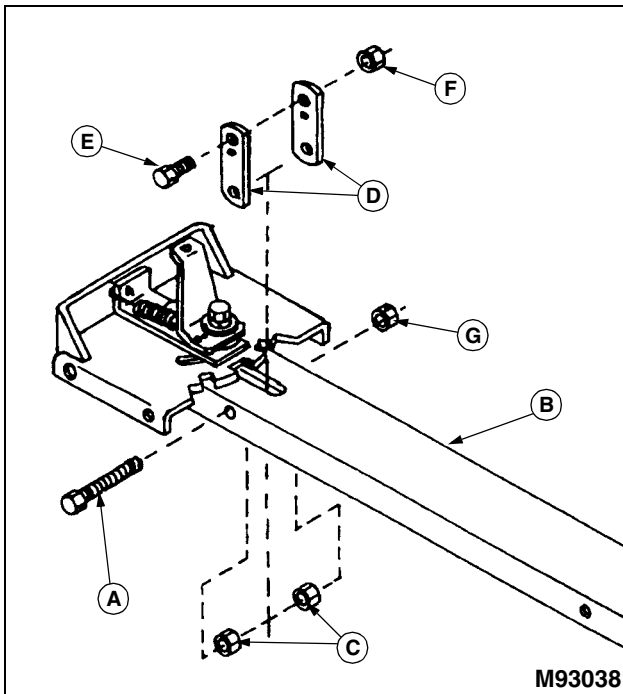
4. Align holes in thrust channel (H) with pivot plate reinforcement (I) and thread 3/8 x 2 full thread bolt (G) with parts assembled into hole and tighten securely.

**NOTE: Tightening of nut (K) will cause loosening of 3/8 x 2 bolt (G) unless bolt is held with a back-up wrench.**

5. Place 3/8 x 1-1/2 flat washer (J) onto bottom of 3/8 x 2 full thread bolt and fasten with 3/8 lock nut (K). Loosen nut approximately 1/4 turn until pivot plate pivots freely.
6. Hook other end of pivot release spring (B) to pivot plate reinforcement.

# ASSEMBLY

## Assemble Pivot Latch Strap

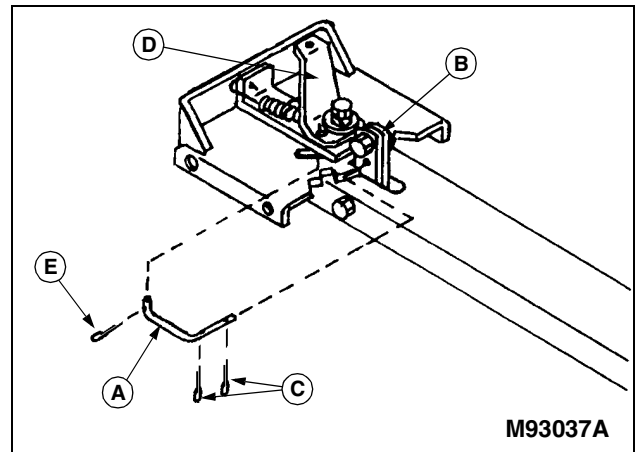


1. Insert 3/8 x 4-1/2 full thread hex bolt (A) through one side of thrust channel (B), approximately half way.
2. Assemble one 3/8 hex nut (C) (non-locking) onto hex bolt (A) approximately 1 inch from head of bolt.
3. Place two pivot latch straps (D) together and fasten with 3/8 x 1 hex bolt (E) and 3/8 lock nut (F). Insert pivot latch straps through slot of the thrust channel and onto the hex bolt (A).

**NOTE: Bolt (A) must pivot freely after 3/8 lock nut (G) is assembled.**

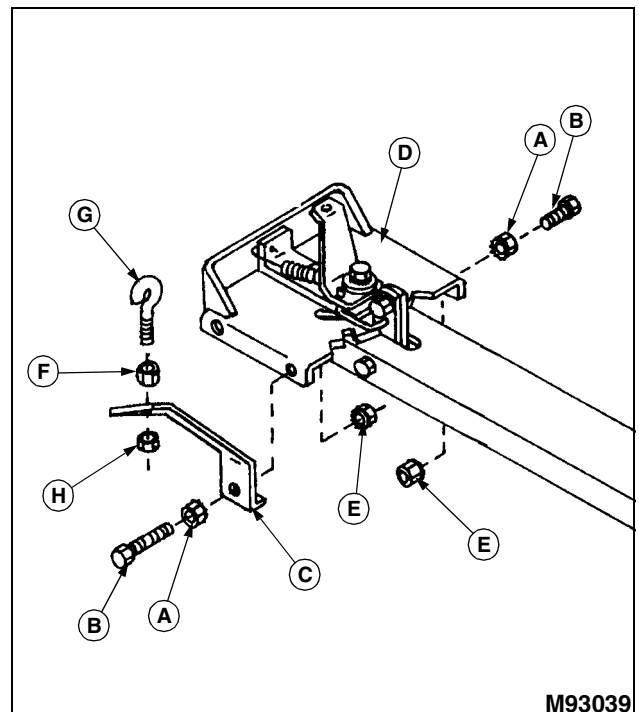
4. Assemble second 3/8 hex nut (C) onto 3/8 x 4-1/2 full thread hex bolt and hand tighten against pivot latch straps. Adjust two 3/8 hex nuts to allow hex bolt (A) to pass through other side of thrust channel and fasten bolt with 3/8 lock nut (G).
5. Fasten pivot latch straps (D) in the center of slot of the thrust channel with 3/8 hex nuts (C).

## Install Pivot Control Rod



1. Assemble pivot control rod (A) into pivot latch straps (B) and fasten with cotter pins (C) by inserting it through the grooved side of the pivot control rod on each side of pivot latch straps.
2. Assemble other end of pivot control rod (A) into hole of pivot release bracket (D) and fasten with cotter pin (E).

## Assemble Blade Pivot Bracket



1. Turn one 5/16 nut and lockwasher assembly (A) onto one 5/16 x 1-1/4 hex bolt (B) with lock washers away from the head of the bolt. Assemble two nuts and bolts in this manner.
2. Place blade pivot bracket (C) on the left side of the pivot

# ASSEMBLY

plate (D). Insert bolt and nut assembly (A and B) and fasten with another nut and lock washer assembly (E).

3. Flush nut with end of bolt (B) and fasten to plate with outside nut.

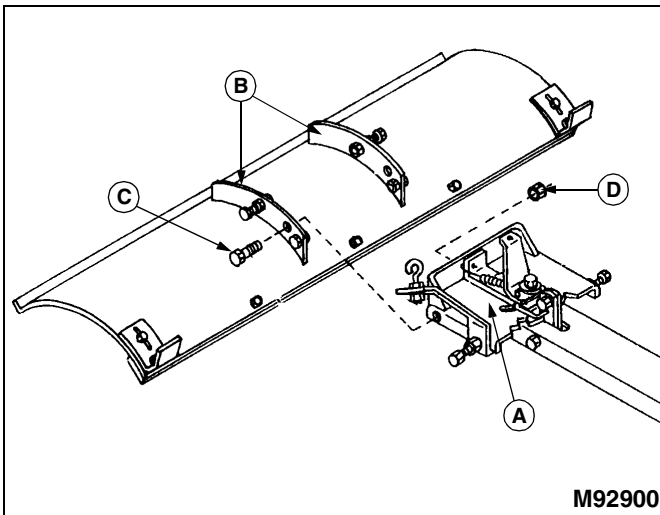
4. Install second bolt and nut assembly (A and B) into right side of pivot plate and fasten with another nut and lock washer assembly (E).

5. Assemble 3/8 lock nut (F) onto 2-inch eye bolt (G) and run it onto the eye end of the threads. Place wrench through eyebolt to hold while tightening.

6. Assemble eyebolt to the blade pivot bracket (C) and fasten with a second 3/8 lock nut (H). Loosen 3/8 lock nut approximately 1/4 turn to allow eyebolt to pivot freely.

## Assemble Pivot Plate to Blade Assembly

1. Lay blade assembly flat on the ground.

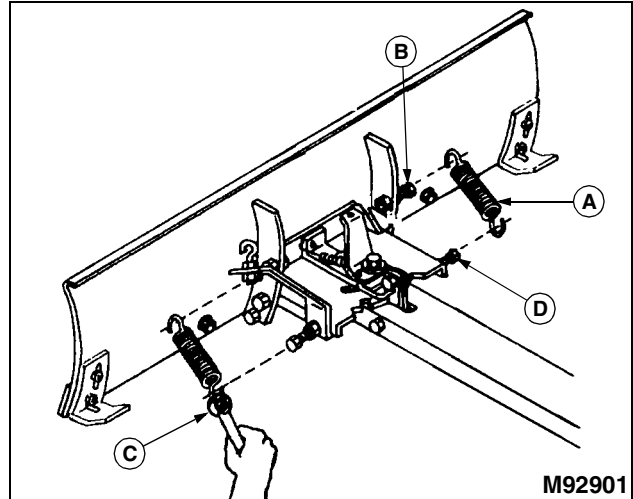


2. Assemble pivot plate (A) between the ribs (B) of the blade assembly and fasten with two 1/2 x 1-1/4 hex bolts (C) and two 1/2 lock nuts (D). Loosen lock nuts (D) approximately 1/4 turn to allow pivot plate to pivot freely.

## Assemble Breakover Return Springs

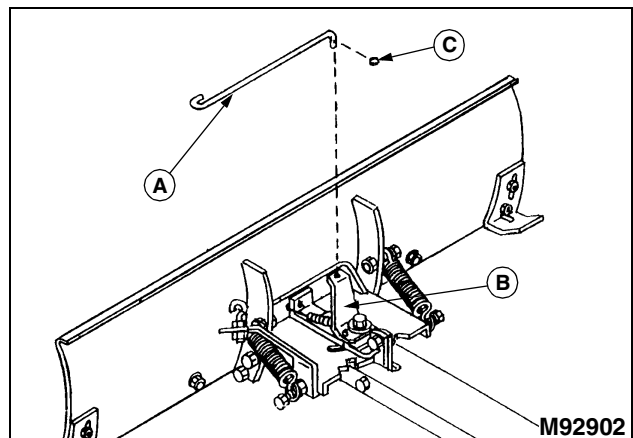


**CAUTION: Avoid injury! Springs under tension. Use caution when attaching springs.**



1. Hook one end of the return spring (A) onto the anchor bolt (B) of the blade assembly.
2. Using a box-end wrench (C) or spring puller hook it onto the lower end of the return spring, press or pull down and hook return spring over the spring anchor bolt (D) of the pivot plate.
3. Repeat procedure for spring on other side of blade.

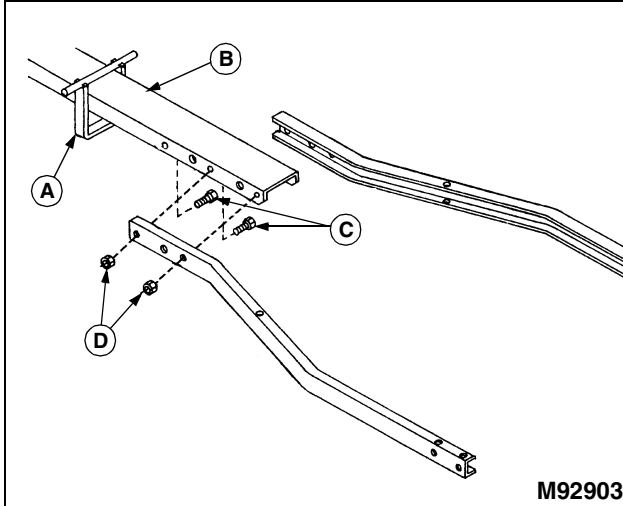
## Assemble Pivot Release Rod



Assemble pivot release rod (A) down into pivot release bracket (B) and fasten with spring clip (C).

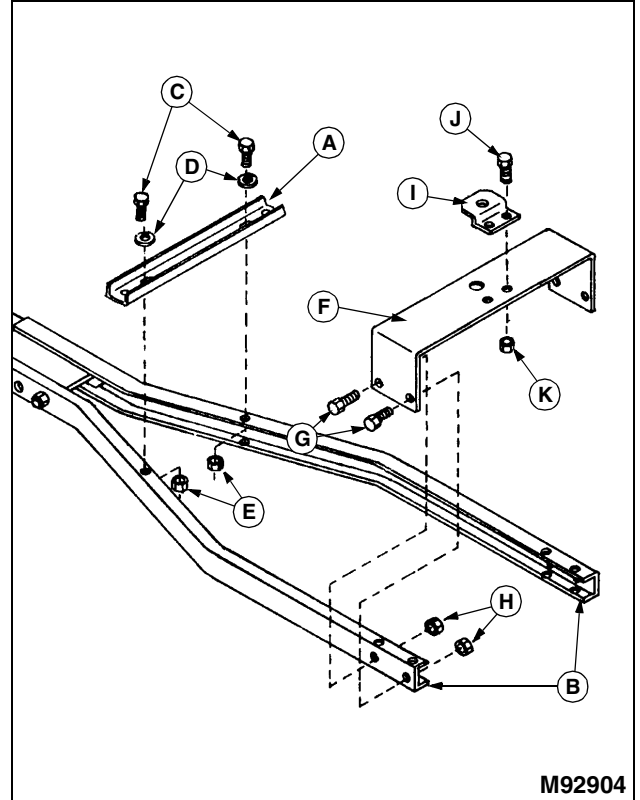
# ASSEMBLY

## Assemble Rear Support Channels to Thrust Channel



1. Install front stabilizer bracket (A) over thrust channel (B).
2. Assemble one rear support channel to each side of the thrust channel and fasten with four 3/8 x 3/4 hex bolts (C) and four 3/8 lock nuts (D) with the head of the bolt to the inside. Hand tighten nuts ONLY.

## Assemble Lift Channel and Rear Mounting Bracket to Rear Support Channels



1. Assemble the lift channel (A) to rear support channels (B) with the open side of the lift channel upward.
2. Fasten lift channel with two 3/8 x 3/4 hex bolts (C), two 7/16 flat washers (D), and two 3/8 hex lock nuts (E). Hand tighten nuts ONLY.
3. Slide rear mounting bracket (F) over rear support channels (B) with the double holes to the rear and fasten with four 3/8 x 3/4 hex bolts (G) and four 3/8 lock nuts (H). Hand tighten nuts ONLY.
4. Assemble rear locating bracket to rear mounting bracket:

**NOTE: If necessary, install clevis pin to align holes before tightening hardware.**

- a. Place rear locating bracket (I) on top of rear mounting bracket (F) and fasten with two 3/8 x 3/4 hex bolts (J) and two 3/8 lock nuts (K).
- b. Tighten ALL nuts shown in Photo M92903 and M92904.

# SPECIFICATIONS

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## Blade Specifications

|                                                   |                  |
|---------------------------------------------------|------------------|
| Blade Width                                       |                  |
| Straight .....                                    | 1168 mm (46 in.) |
| Angled .....                                      | 1041 mm (41 in.) |
| Range of Lift (Blade positioned straight forward) |                  |
| Above Ground Level .....                          | 152 mm (6 in.)   |
| Below Ground Level .....                          | 51 mm (2 in.)    |
| Blade Height .....                                | 356 mm (14 in.)  |
| Angling Positions                                 |                  |
| Number of Positions. ....                         | 3                |
| Right and Left .....                              | .25°             |
| Weight (Approximate) .....                        | 30.8 kg (68 lb)  |

(Specifications and design subject to change without notice.)



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## NOTES

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# QUALITY STATEMENT

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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. | C. It gives ordering information for parts catalogs, service and technical manuals. |
| B. It gives troubleshooting procedures, and specification information.                                    | 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. | C. If the parts and service people are unable to resolve your problem, see the dealership manager or owner. |
| B. First, discuss your questions or problems with your dealer's trained parts and service staff.                                                                    | 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 13-digit serial number which you recorded on the inside front cover of this manual. |
| • Your equipment model number.                          | • If the problem is with an attachment, your attachment identification number.             |
| • Number of hours on machine (if applicable).           |                                                                                            |
- 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.

