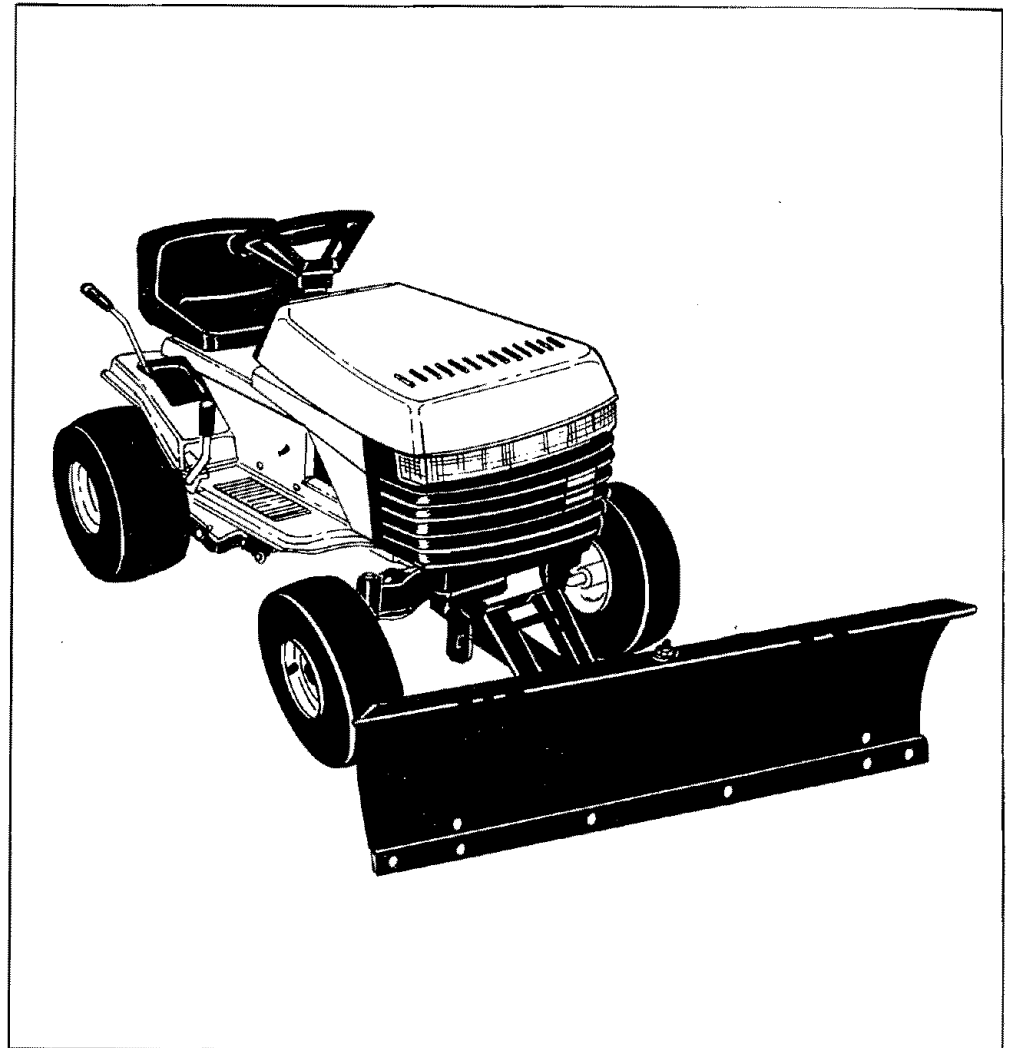


# **SEARS**

**owners  
manual**

**Model No.**  
**486.244031**  
**42"**  
**SNOW BLADE**

**CAUTION:**  
Read Rules for  
Safe Operation  
and Instructions  
Carefully



## **42" SNOW BLADE**

Use this manual for all 502 series tractors  
**EXCEPT** those listed here:

**502.25426, 502.25428, 502.25429,**  
**502.25469, 502.25928**

For these models use manual for  
**486.244090** snow blade.

- **Assembly**
- **Operation**
- **Customer Responsibilities**
- **Repair Parts**

# RULES FOR SAFE OPERATIONS

Any power equipment can cause injury if operated improperly or if the user does not understand how to operate the equipment.

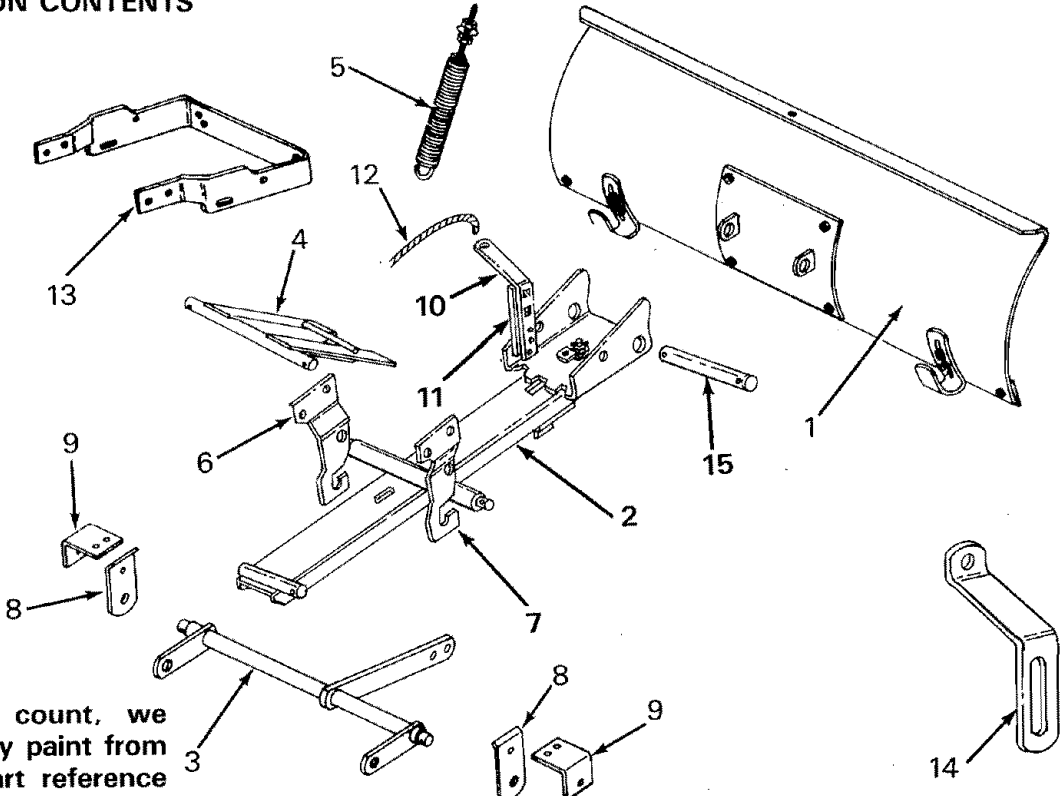


LOOK FOR THIS SYMBOL TO POINT OUT IMPORTANT SAFETY PRECAUTIONS. IT MEANS .. ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED.

Exercise caution at all times, when using power equipment.

1. Read the tractor and snow blade owners manuals and know how to operate your tractor, before using tractor with snow blade attachment.
2. Never operate tractor and snow blade without wearing proper clothing suited to weather conditions and operation of controls.
3. Never allow children to operate tractor and snow blade, and do not allow adults to operate without proper instructions.
4. Always begin with transmission in first (low) gear and gradually increase speed as required.

**42" SNOW BLADE CARTON CONTENTS**  
(ALSO SEE PAGE 3)



While confirming parts count, we suggest that you clear any paint from the 1/8" pin holes in part reference numbers 2, 3 and 4 to make assembly easier.

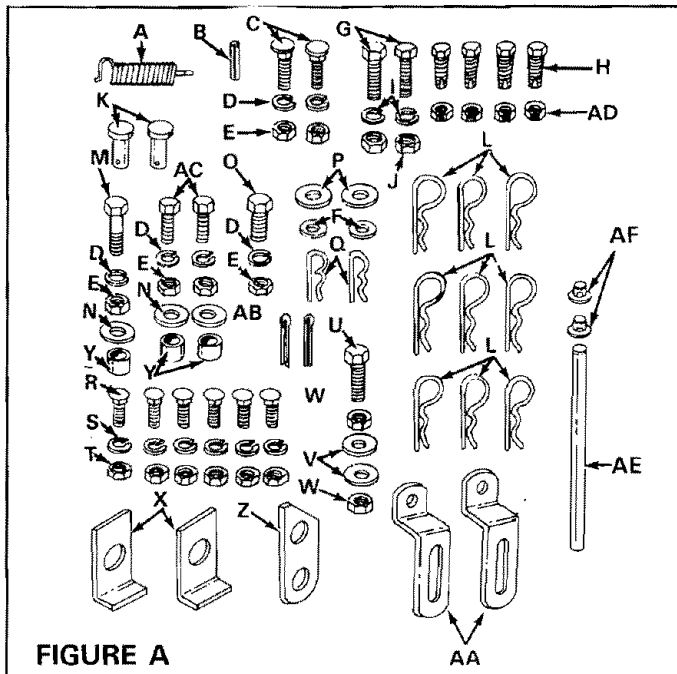
## CARTON CONTENTS

REF. NO.	QTY.	DESCRIPTION	REF. NO.	QTY.	DESCRIPTION
1	1	Blade Assembly	9	2	Lift Mount Angles
2	1	Push Channel/Pivot Plate Assembly	10	1	Angle Lock Bar (long)
3	1	Lift Assembly	11	1	Angle Lock Bar (short)
4	1	Guide Bracket Assembly	12	1	Rope
5	1	Spring Assembly	13	1	Hitch Plate Bracket
6	1	L.H. Hitch Plate	14	1	Connecting Link (long offset)
7	1	R.H. Hitch Plate	15	1	Pivot Shaft
8	2	Lift Pivot Plates		1	Parts Package (Not Shown)

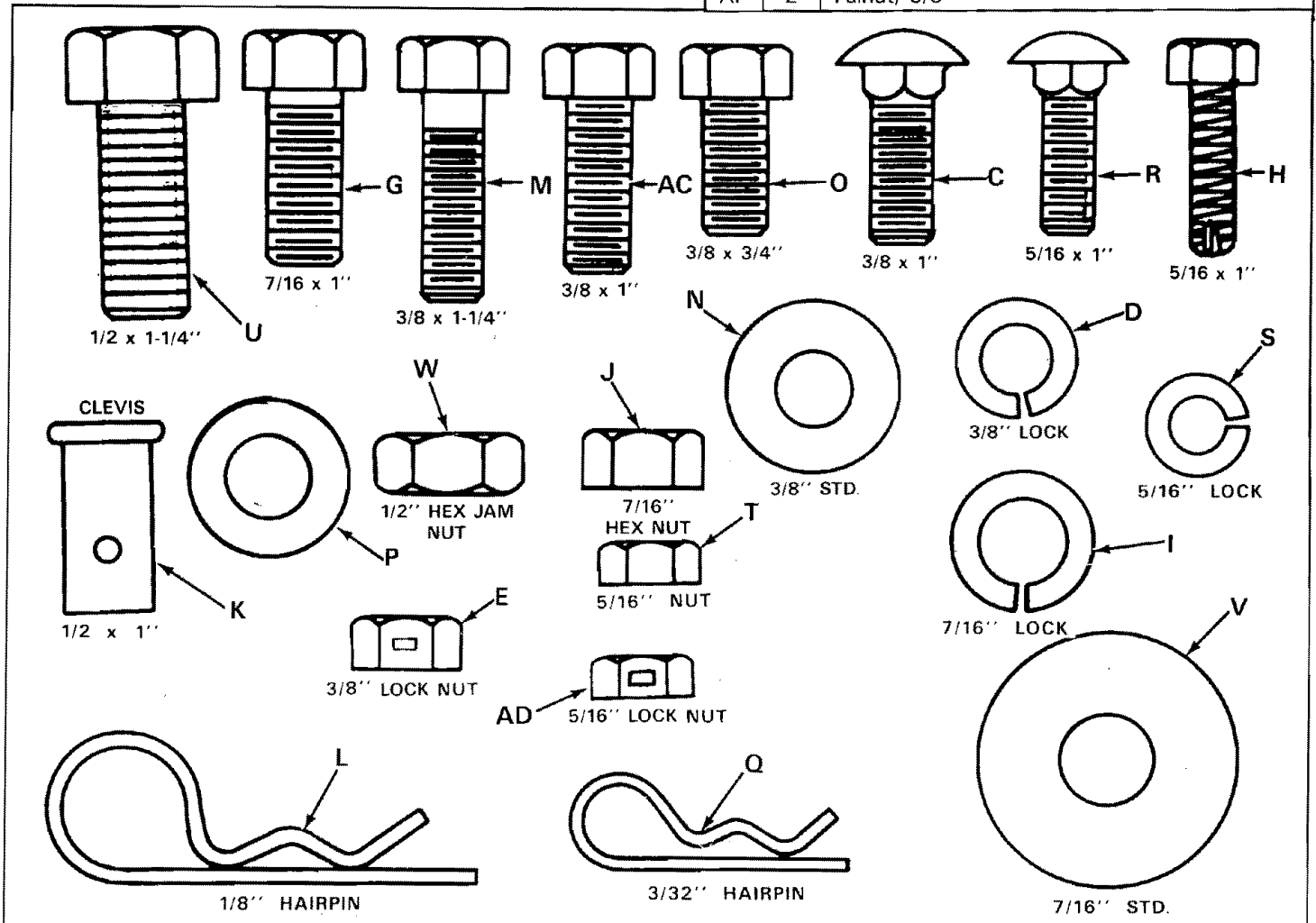
**NOTE:** Installation of your snow blade may not require all of the hardware shown. Some hardware may be left over depending on the tractor which you are attaching to.

**CONTENTS OF HARDWARE PACK: (Figure A).**

REF. NO.	QTY.	DESCRIPTION
A	1	Angle Lock Spring
B	1	Spring Pin 1/4 x 1"
C	2	Carriage Bolt 3/8-16 x 1"
D	6	Lock Washer 3/8
E	6	Hex Lock Nut 3/8-16
G	2	Hex Bolt 7/16-14 x 1"
H	4	Thread Cutting Bolt 5/16-18 x 1"
I	2	Lock Washer 7/16"
J	2	Hex Nut 7/16-14"
K	2	Clevis Pin 1/2 z 1"
L	9	Hairpin Cotter 1/8"
M	1	Hex Bolt 3/8-16 x 1-1/4"
N	3	Flat Washer 3/8" Std.
O	1	Hex Bolt 3/8-16 x 3/4"
P	2	Washer, Flat .51 x .990 x .020 Thk.
Q	2	Hairpin Cotter 3/32"
R	6	Carriage Bolt 5/16-18 x 1"
S	6	Lock Washer 5/16"
T	6	Hex Nut 5/16-18"
U	1	Hex Bolt 1/2-13 x 1-1/4"
V	2	Flat Washer 7/16" Std.
W	2	Hex Jam Nut 1/2-13"
X	2	Keeper Plate
Y	3	Pivot Bushing
Z	1	Lift Arm Link
AA	2	Connecting Link (short offset)
AB	2	Cotter Pin 1/8" x 1"
AC	2	Hex Bolt 3/8-16 x 1"
AD	4	Hex Lock Nut 5/16-18
AE	1	Spring Mount Rod
AF	2	Pinnut, 3/8"



**FIGURE A**



**FIGURE FULL SIZE HARDWARE REFERENCE CHART**

# ASSEMBLY INSTRUCTIONS

## TOOLS REQUIRED FOR ASSEMBLY

- (1) Pliers
- (1) Hammer
- (1) Screwdriver
- (1) 1/2" Open End or Box Wrench
- (1) 9/16" Open End or Box Wrench
- (1) 5/8" Open End or Box Wrench
- (1) 3/4" Open End or Box Wrench
- (1) Adjustable Wrench

Refer to carton contents figure on page 2 and figure A on page 3 of snow blade supplement for parts and hardware needed to assemble snow blade.



RIGHT HAND (R.H.) AND LEFT HAND (L.H.) ARE DETERMINED FROM OPERATOR'S POSITION WHILE SEATED ON TRACTOR.

1. Assemble (long) angle lock bar, and (short) angle lock bar together using two 3/8" x 1" carriage bolts, 3/8" lock washers and 3/8" hex nuts. Do Not Tighten. See figure 1.

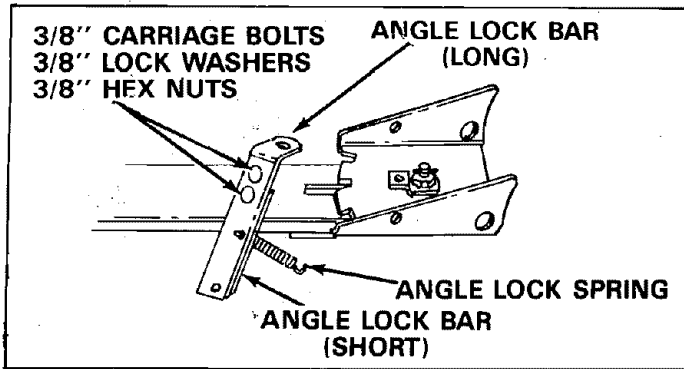


FIGURE 1

2. Assemble angle lock spring through angle lock bars positioning end hook as shown. See figures 1 and 2.

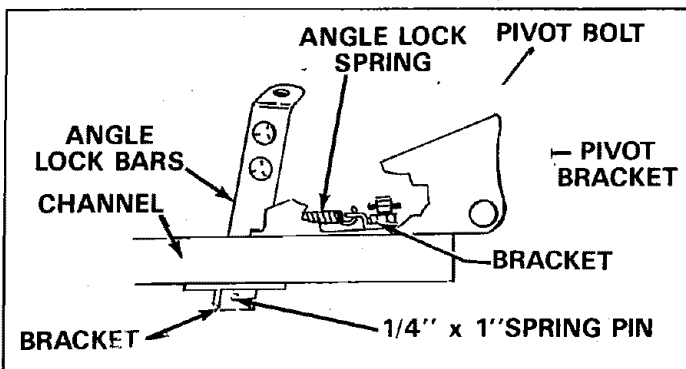


FIGURE 2

3. Assemble hook of angle lock spring into hole of bracket under pivot bolt. Pull lock bars up to extend spring just enough to allow assembly of angle lock bars down through slot in pivot bracket and channel. See figures 1 and 2.
4. Using a hammer drive 1/4" x 1" spring pin through slot in bracket and hole in end of lock bars until flush with bracket. See figure 2. Tighten 3/8" hex nuts left loose in step 1.
5. Using a hammer drive a 3/8" palnut onto one end of spring mount rod. Insert the other end of the spring mount rod through both small holes in the pivot plate. Support end (with palnut) of the spring mount rod with a block of wood and hammer on the remaining palnut. See figure 3.

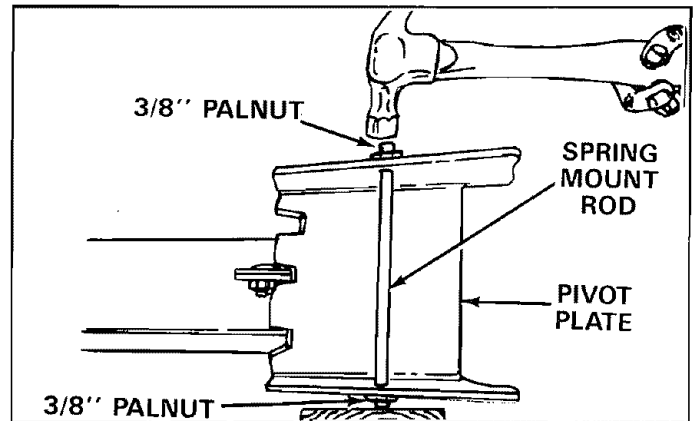


FIGURE 3

## ASSEMBLY OF SNOW BLADE TO LAWN TRACTOR

Remove mower or any other attachment you may have mounted to your tractor. Mark all loose parts and save for reassembly. Refer to owner's manual for removal of mower/attachment.

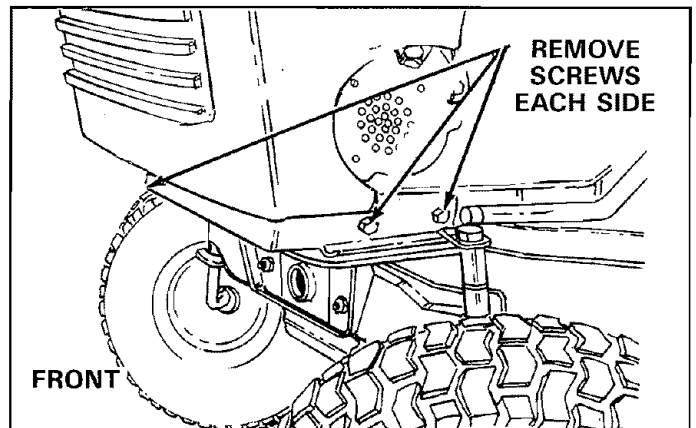


FIGURE 4

1. Remove two screws (see figure 4 from each side side of tractor frame. Assemble hitch plate bracket to each side of tractor frame using new longer 5/16-18 x 1" thread cutting bolt (replacing screws previously removed) and tighten securely with 5/16-18 hex lock nuts. See figure 5.

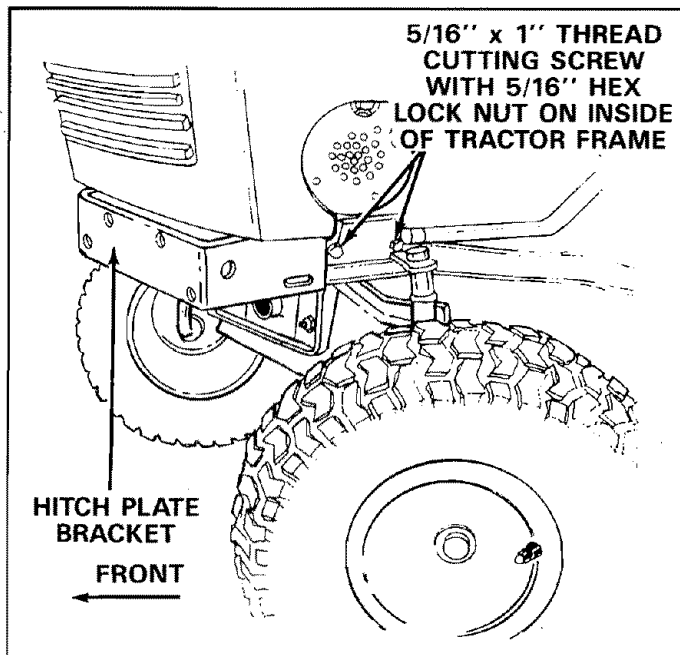


FIGURE 5

- Assemble right and left hand hitch plates to outside of hitch plate bracket with offset as shown in figure 6, using 5/16-18 x 1" carriage bolt and 7/16" x 1" hex bolt on each side; tighten securely with lock washers and hex nuts. See figure 6.



NOTE

Offset on hitch plates must be toward inside as shown in figure 6.

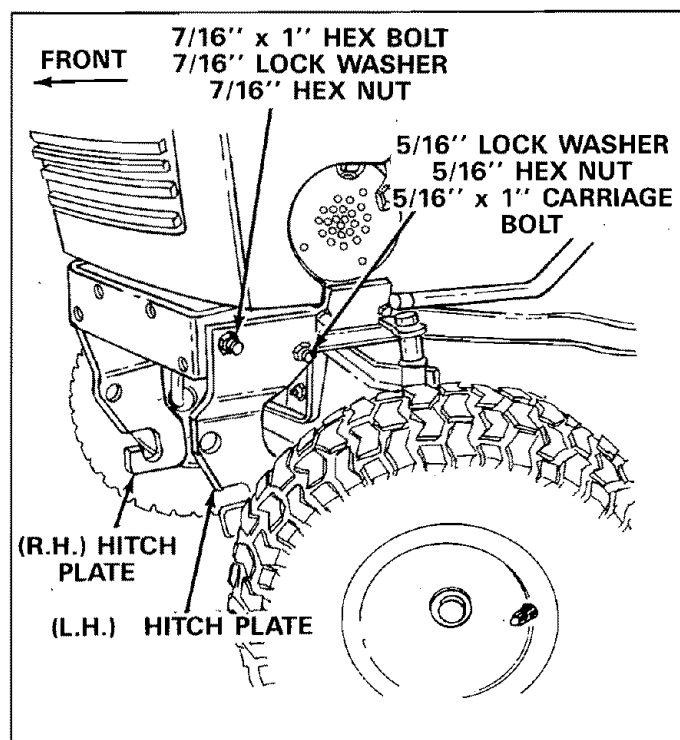


FIGURE 6

- Assemble one 1/2" x 1-1/4" hex bolt into slotted hole in channel assembly, (see figure 7) with one 1/2" hex nut and one 7/16" standard washer on top side and one 1/2" hex nut and 1-7/16" standard washer under channel. **Do not tighten at this time.**
- Assemble channel assembly to front of tractor shown in figure 7 and 8.

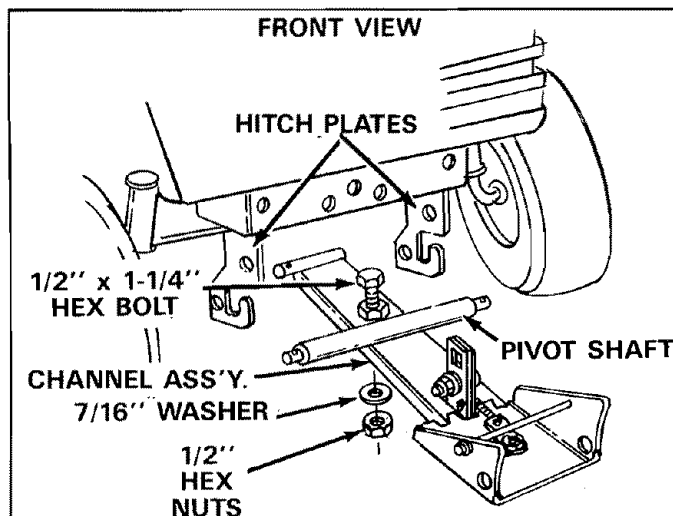


FIGURE 7

- Assemble keeper plates over each end of pivot shaft with lip under hitch plates, (see figure 8) and secure with two 1/8" (large) hairpin cotters through small holes near each end of shaft.

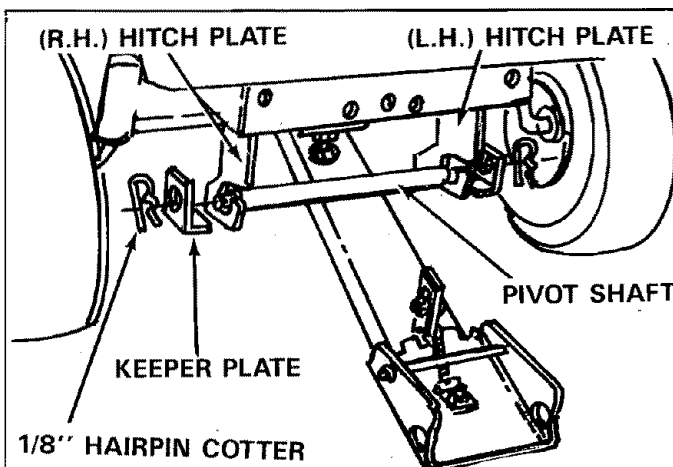


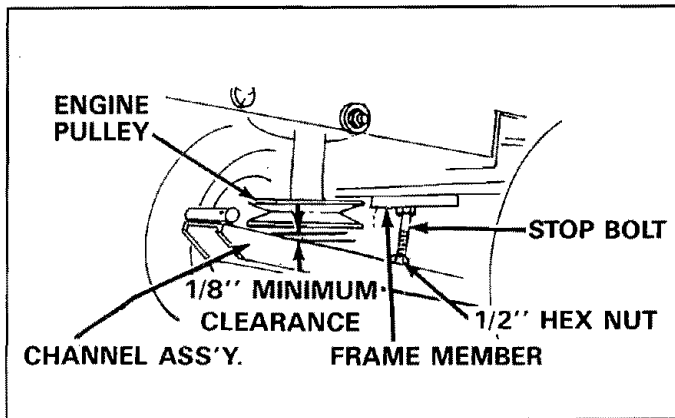
FIGURE 8

- Adjust 1/2" x 1-1/4" stop bolt, previously assembled into channel assembly (step 2). See figure 9. Adjust hex nuts, above and below channel to provide at least 1/8" clearance between channel and the tractor engine pulley with the stop bolt positioned against frame member. See figure 9.



NOTE

The stop bolt must be tightened in place before assembling blade assembly to channel.

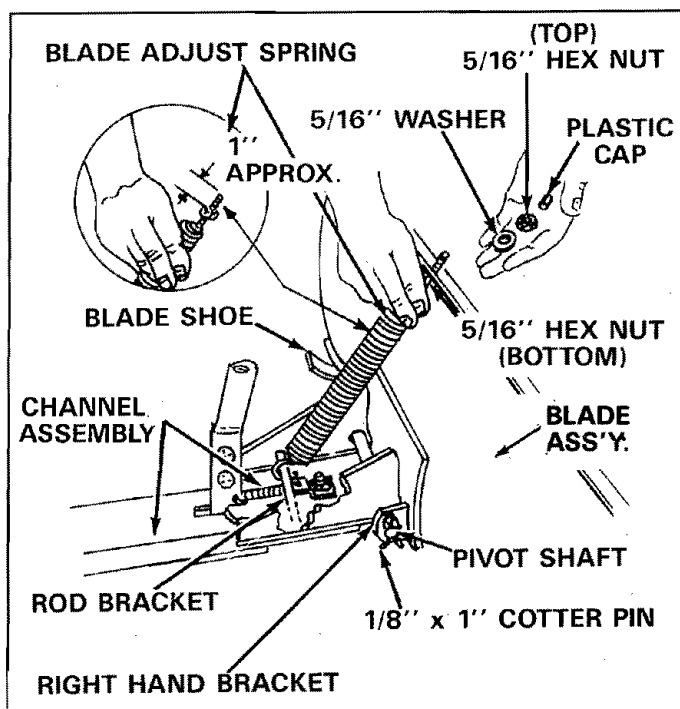


**FIGURE 9**

- Assemble blade assembly to channel assembly by sliding one end of pivot bar into right hand bracket and then sliding back into left hand bracket. See figure 10. Secure by assembling two 1/8" x 1" cotter pins into small holes near ends of pivot bar. Spread ends to retain.



Blade shoes are factory assembled to blade assembly in lower setting. See adjustments step "C" on page 10, for repositioning.

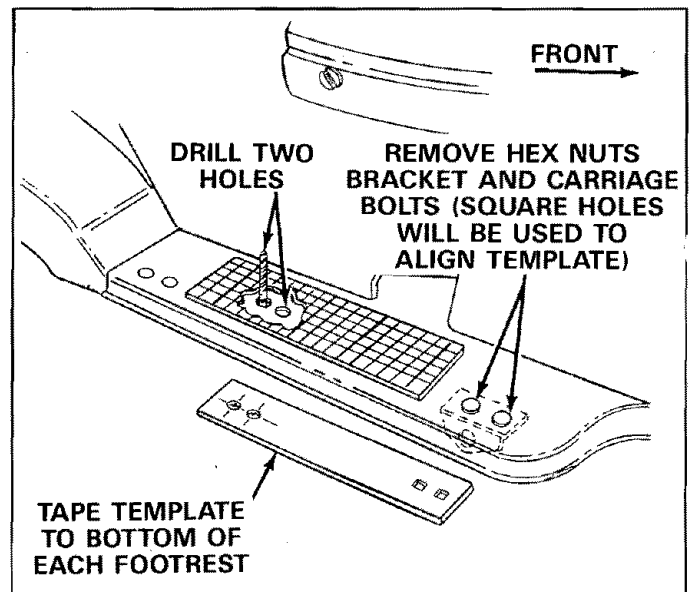


**FIGURE 10**

- To assemble blade adjust spring, remove plastic cap, 5/16" flat washer and one 5/16" hex nut. Adjust the remaining 5/16" hex nut on the long bolt to approximately one inch down from end of bolt threads. Assemble adjusting bolt through hole in top edge of blade and hold in place with

5/16" hex nut removed earlier. Do not tighten 5/16" hex nut at this time. Push down on the spring and hook end of spring over rod bracket as shown in figure 10. Tighten 5/16" hex nut on top edge of blade down against the bottom 5/16" hex nut. Replace plastic cap over end of adjusting bolt threads. See figure 10.

- If there are two square holes on the underside middle of both the right and left hand footrests go directly to step 15.
- If there are not two square holes on the underside middle of both the right and left hand footrests proceed with step 11.
- Cut out the templates furnished with this supplement. Remove the 5/16-18 hex nuts, angle brackets and carriage bolts from the right and left hand footrests. See figure 11.



**FIGURE 11**

- Position templates to the underside of each footrest, align squares on template with square holes in bottom of each footrest (holes for angle brackets removed in step 11). Tape template in place, to bottom of each footrest.
- Use a center punch to make the new hole center locations, then drill two 13/32" diameter holes in each footrest and on through each rubber pad on top of each footrest.
- Reassemble angle brackets to footrests removed in step 11.

15. Locate two holes on underside of right and left hand footrests (see figure 12) (holes drilled in step 13) and push a sharp tool, such as a small screwdriver, up through the footrest holes and the rubber pads on top side of each footrest.

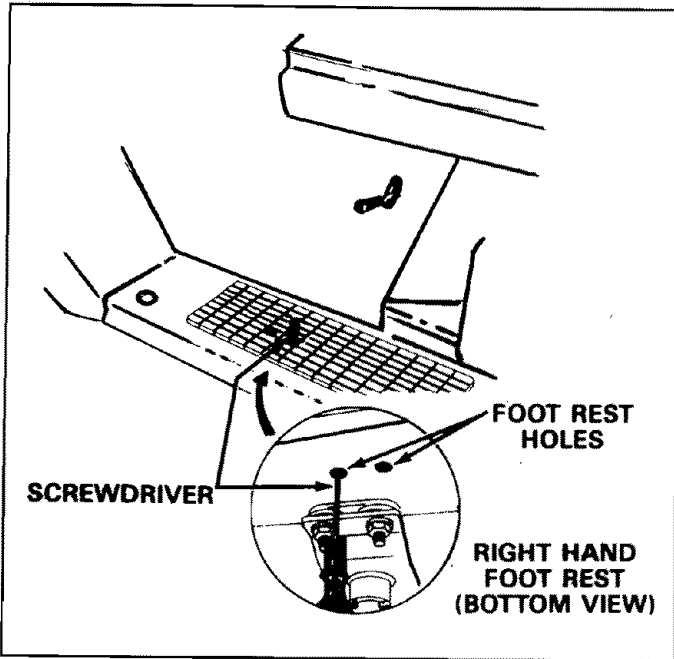


FIGURE 12

16. Enlarge holes in rubber pads to allow assembly of two 5/16" x 1" carriage bolts through each footrest, (see figures 13 and 14) and through each lift mount angle. Assemble lift mount angles, with large hole facing to outside of tractor and secure using two 5/16" lock washers and two 5/16" hex nuts under each footrest. See figure 14.

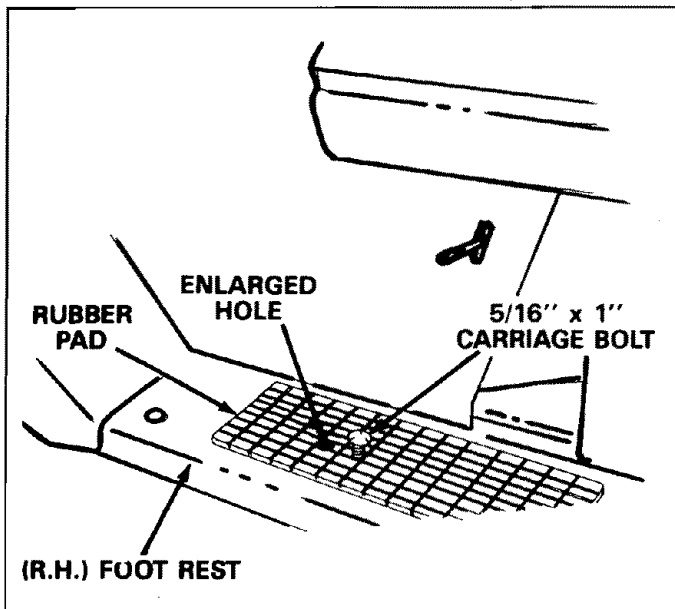


FIGURE 13

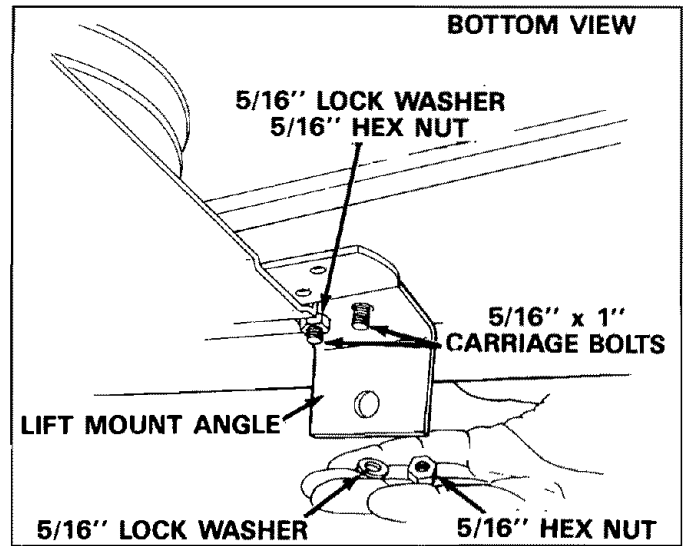


FIGURE 14

17. Assemble lift pivot plate to inside of left hand lift mount angle. See figure 15. Secure with one 1/2" x 1" clevis pin (from inside through mounting holes) and one 1/8" (large) hairpin cotter through small hole in clevis pin. See figures 15 and 16. **NOTE: Do not assemble lift pivot plate to right hand lift mount angle at this time.**

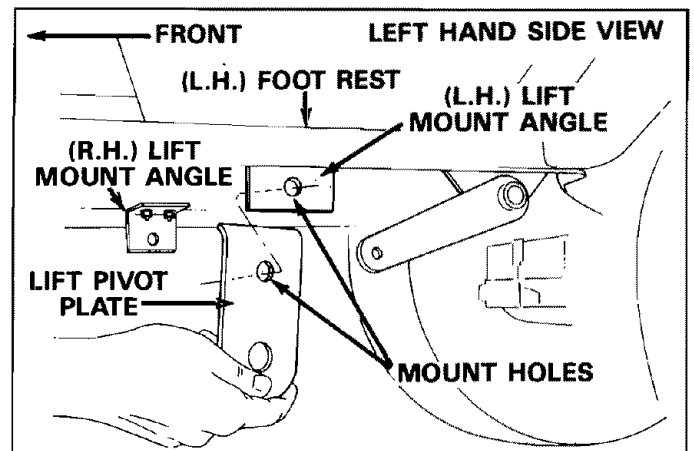


FIGURE 15

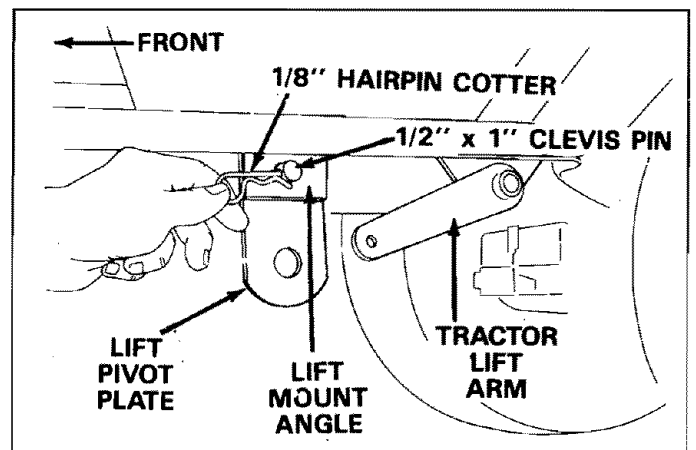


FIGURE 16

18. Pre-assembly lift arm link to inside of long arm on lift assembly. See figure 17.



Lift assembly must be positioned as shown with long arm toward front and off center to the right. See figure 17.

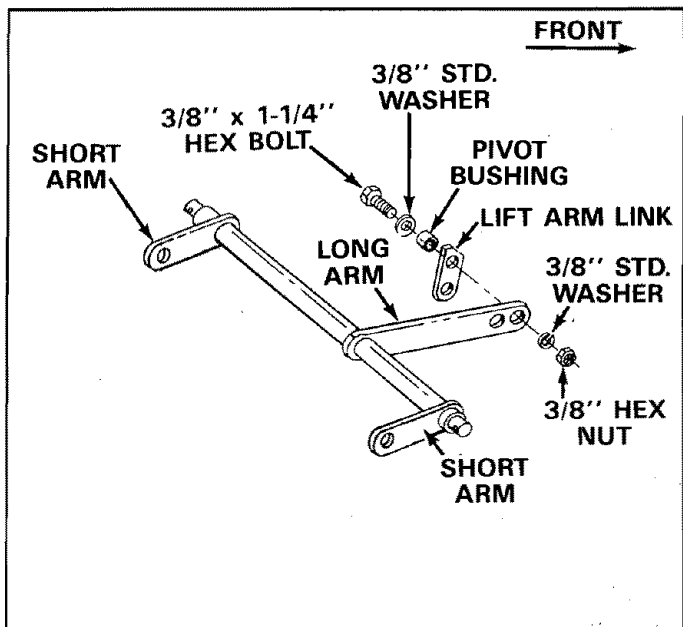


FIGURE 17

19. Assemble one 3/8" x 1-1/4" hex bolt through 3/8" flat washer, through pivot bushing, through large hole in lift arm link (near angle end), and through hole in long arm nearest the end. Secure with one 3/8" lock washer and one 3/8" hex nut on outside. See figure 17. **NOTE:** Lift arm link must pivot freely.



Lift arm link must be positioned as shown in figures 17 and 18.

20. Assemble one 3/8" x 3/4" hex bolt from inside, through second hole from end of long arm. Secure with one 3/8" lock washer and one 3/8" hex nut on outside. This bolt is used as a limit stop for the lift arm link. See figure 18.
21. Move tractor attachment lift lever all the way back and lock in position. See figure 23, page 9.

22. Assemble lift arm link (lift assembly) over channel rod and insert pivot shaft end (from right hand side of tractor) into hole in left hand lift pivot plate. See figure 18. Secure lift arm link to channel rod with 1/8" (large) hairpin cotter. See figure 19.

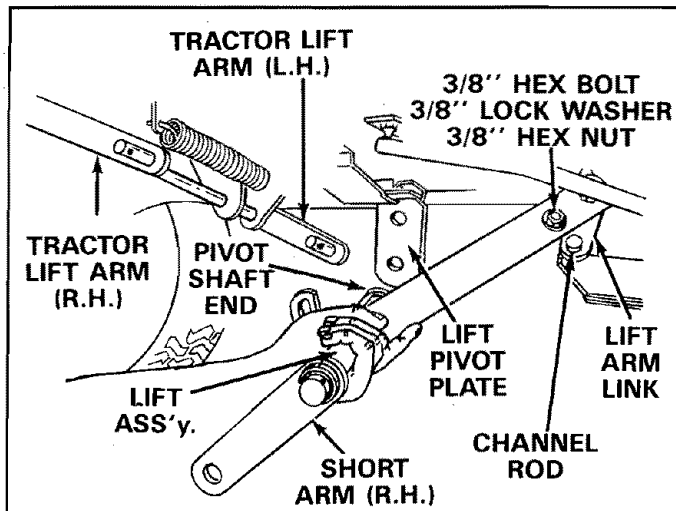


FIGURE 18

23. Assemble lift pivot plate over right hand end of pivot shaft, as shown in figure 19, and secure with 1/8" hairpin cotters (large) in small holes near each end of pivot shaft.

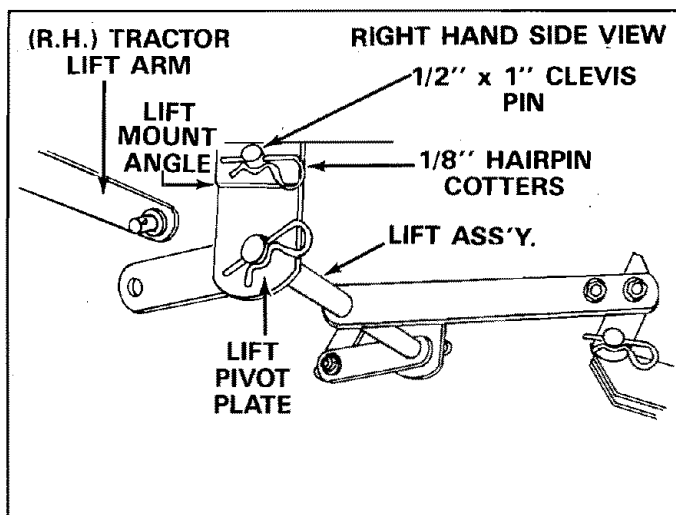


FIGURE 19



Lift pivot plate is assembled inside of mount angle with top bend towards center of tractor.

24. Raise right hand end of lift assembly to align upper hole in lift pivot plate with hole in lift mount angle. See figure 20.



25. Move tractor attachment lift lever forward. Secure connecting links (slotted end) to tractor lift arms (inside of left side and outside of right side) using flat washers and 3/32" (small) hairpin cotters. See figure 20 below.
26. Assemble connecting links to outside of each short arm of the lift assembly, using 3/8" x 1" hex bolts, pivot bushing and tighten securely with 3/8" flat washer, 3/8" lock washer and 3/8" hex nut on inside of short arms. See figure 20.

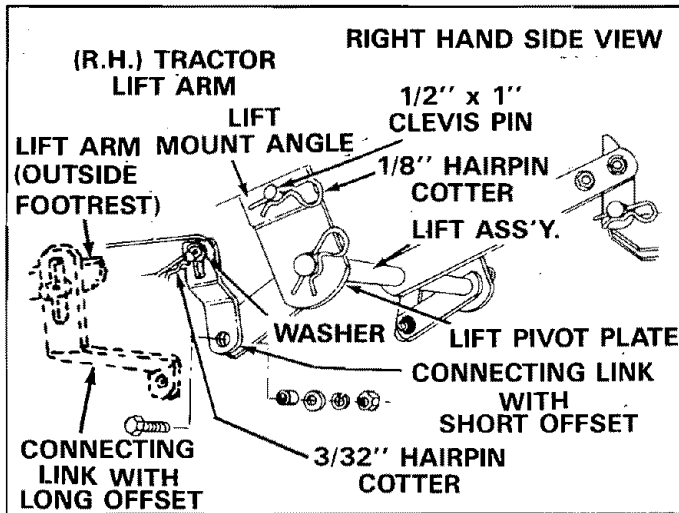


FIGURE 20



Use connecting link with long offset if (RH) lift arm is located to outside of footrest. See figure 20.

27. Assemble guide bracket assembly shaft end into the left hand hitch plate. See figures 21 and 22. Slide guide assembly back to the right and into hole in the right hand hitch plate. Secure with a 1/8" (large) hairpin cotter in each end. See figure 22. Lower front end of guide bracket assembly to straddle channel assembly.

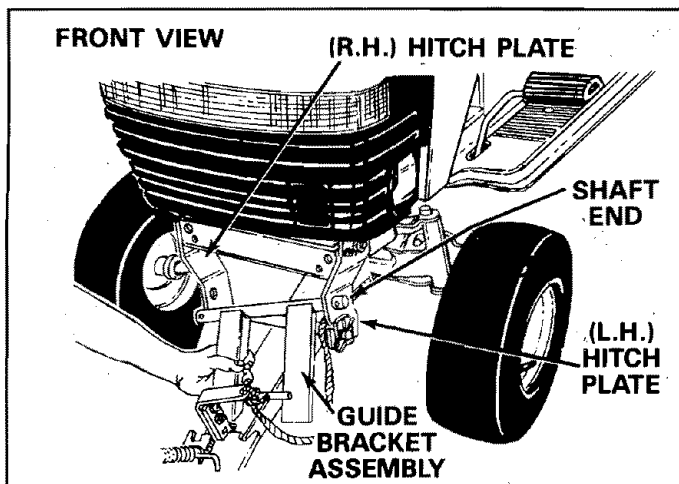


FIGURE 21

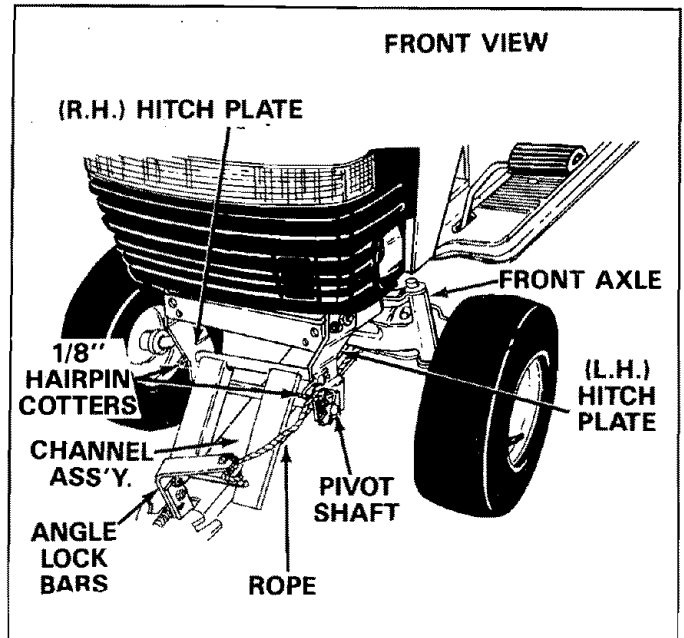


FIGURE 22

28. Secure rope to top hole in angle lock bars. See figure 22. Thread rope as shown, under left hand side of tractor, proceeding over pivot shaft, inside left hand hitch plate, under front axle and tie rod, continuing outside of frame up to tractor steering column. See figure 22. Tie rope securely to steering column, taking up most of the slack in rope.



**SECURE ROPE TO PREVENT ENTANGLEMENT WITH STEERING LINKAGE AND FRONT WHEELS.**

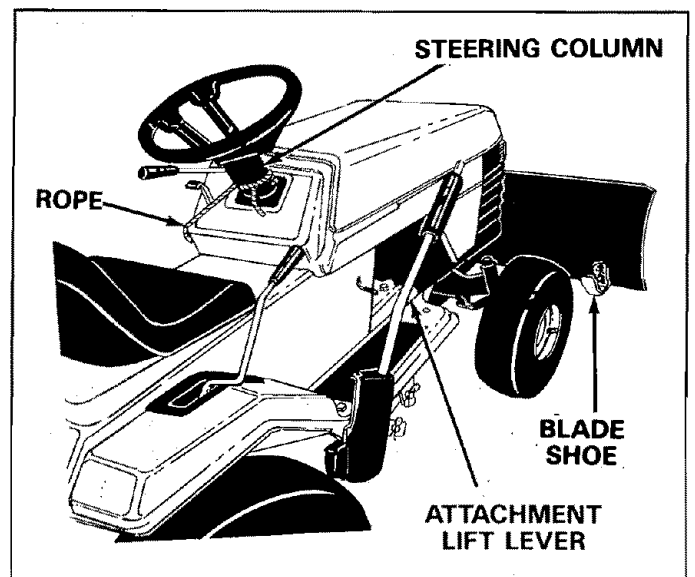


FIGURE 23

# OPERATION INSTRUCTIONS and ADJUSTMENTS

The snow blade attachment is designed to move new loose snow in depths up to 6" – 8".



**HIDDEN OBJECTS CAN CAUSE SUDDEN STOPS OR CHANGE IN DIRECTION.**

## CONTROLS

Become familiar with all of the controls and adjustments on the tractor and snow blade before operating. Refer to tractor owners manual for tractor controls. Controls for operating snow blade are as follows:

- A. **Lift control lever:**  
Located on right hand side of tractor. See figure 23, page 9. Move lever forward to lower snow blade. Pull lever back to raise and lock snow blade.
- B. **Lift lever plunger:**  
Located on top of lift control lever. See figure 23. Pull back on lift control lever and depress plunger to release.



**WITH THE SNOW BLADE IN THE "UP" POSITION DO NOT DEPRESS THE PLUNGER WITHOUT HOLDING BACK ON THE LIFT CONTROL LEVER OR SNOW BLADE MAY SUDDENLY DROP.**

## ADJUSTMENTS

- A. **Blade angle lock bars:**  
Blade angle can be adjusted at the blade pivot in front of tractor by first raising the blade to transport position, pull back on angle lock bars to release the blade and pivot to the right, center, or left positions. Release lock bars to lock.  
**To adjust blade angle from the tractor seat:** Raise blade to transport position, shift tractor to low speed range, pull back on rope to release angle lock bars. Move tractor forward slowly, dragging the right, or left end of blade against snow bank (or other object) to angle blade to right or left. Release rope to lock.
- B. **Adjust blade spring:**  
Blade adjust spring tension is adjustable to permit blade to tilt forward to by pass solid obstructions.



**KNOW THE TERRAIN. AVOID EXCEPTIONALLY SHARP SLOPES OR DROP-OFFS WHICH MAY BE HIDDEN BY THE SNOW.  
NEVER RUN THE SNOW BLADE INTO HEAVY MATERIAL AT HIGH SPEED.**

- C. **Blade shoe adjustment:**  
Blade shoes on ends of blade, (see figure 23), may be raised for close work on smooth surfaces or lowered to raise the blade to work on rough or uneven areas. Make sure both shoes are set evenly and nuts are tightened securely.



### NOTE

**Wheel weights and tire chains should be used with your snow blade to improve traction. These accessories are available at your nearest Sears retail or catalog store.**

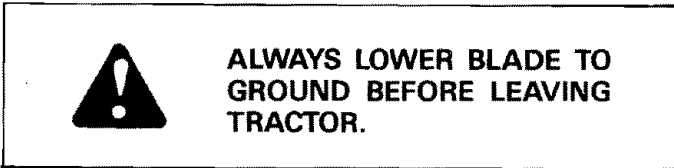
## OPERATION



**INSPECT THE AREA TO BE WORKED CAREFULLY BEFORE OPERATING THE SNOW BLADE. AVOID PIPES, ROOTS, CURBS OR OTHER HEAVY OBSTRUCTIONS.**

1. Prepare the lawn tractor engine for cold weather use following instructions furnished with lawn tractor.
2. Always begin with transmission in first (low) gear and gradually increase speed as required.

3. DO NOT always push snow in the same direction causing excessive build up with each successive pass.
4. If blade is stored in heated area, allow lawn tractor and blade to adjust to outdoor temperature before operating to reduce icing on the metal surfaces.



## TO REMOVE SNOW BLADE FROM TRACTOR

1. Lower blade to ground with blade in the center (straight) position.
2. Refer to figure 24 below and;
  - A. Remove 3/32" (small) hairpin cotters and washers from right and left hand lift arms.
  - B. Remove 1/8" (large) hairpin cotters and two 1/2" x 1" clevis pins near top of left hand and right hand lift pivot plates and lower the lift assembly to the ground.

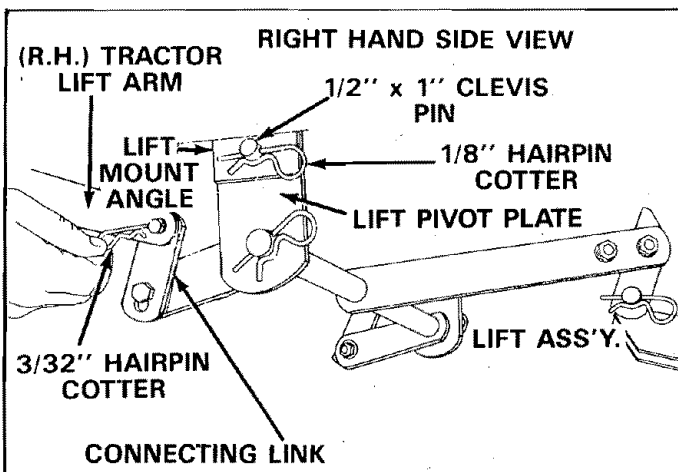


FIGURE 24



Lift mount angles do not require removal for re-assembly of mower deck. See figure 24.

3. Refer to figure 25 below and remove 1/8" (large) hairpin cotters from ends of guide bracket assembly and remove guide bracket assembly.

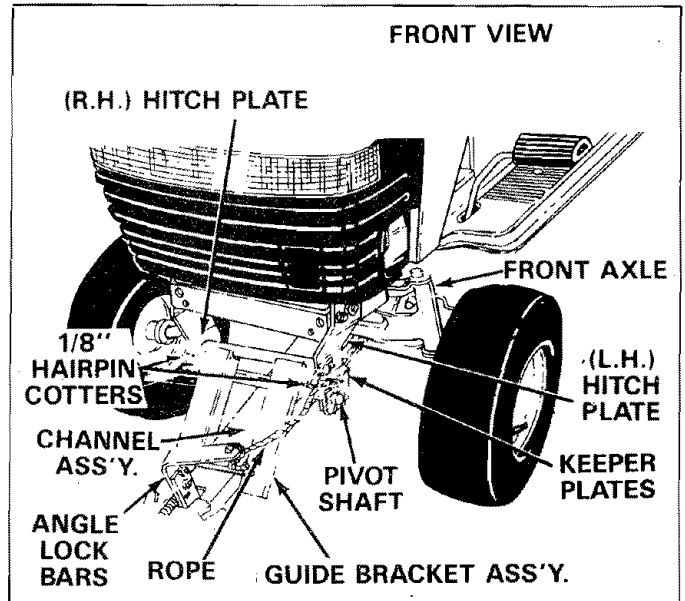


FIGURE 25

4. Refer to figure 25 above and remove 1/8" (large) hairpin cotters from ends of channel assembly pivot shaft and remove keeper plates. Lift the channel assembly pivot shaft out of the hitch plates and lower channel to the ground.



Hitch plates do not require removal for re-assembly of mower deck, except for use of the rear bagging attachment with front weight. See figure 25.

5. Remove rope (if installed) from tractor and save all loose parts and hardware for re-assembly of blade to tractor.

## CUSTOMER RESPONSIBILITIES

During the operating season, check all bolts, nuts and hairpin cotters to be sure they are secure. For improved snow removal performance, coat the blade with automotive type paste wax.

### LUBRICATION

Oil all pivot points so that they will work freely.

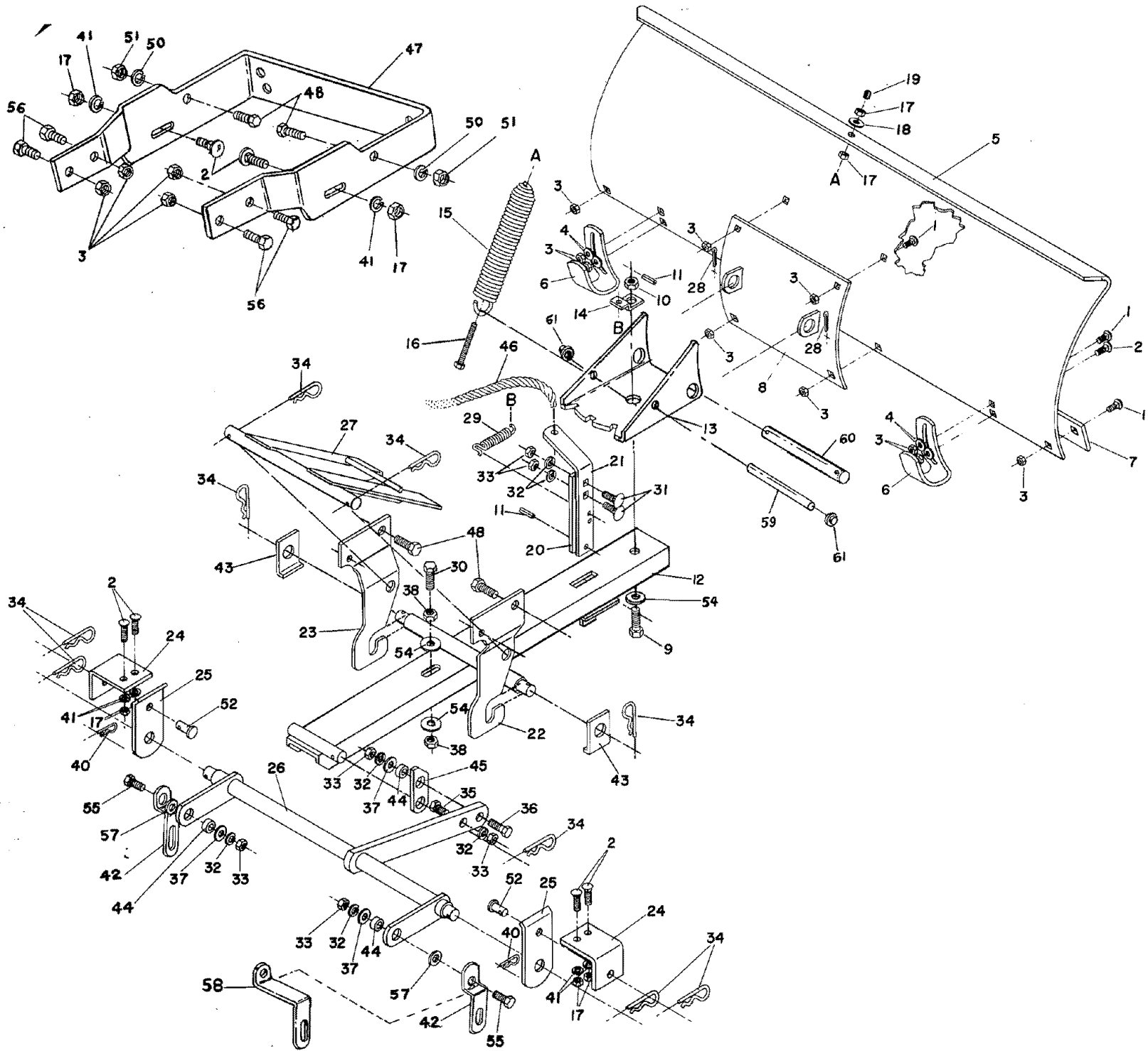
## STORAGE

When the snow blade is not being used, remove all dirt and rust and touch up with paint.

Apply a light coat of grease or rust preventative to the blade and oil pivot points.

Store in an area where it is protected from weather.

REPAIR PARTS FOR MODEL 486.244031 — 42" SNOW BLADE



# REPAIR PARTS FOR MODEL 486.244031 — 42" SNOW BLADE

REF. NO.	PART NO.	QTY.	DESCRIPTION	REF. NO.	PAR	QTY.	DESCRIPTION
1	43080	8	Carriage Bolt 5/16-18 x 3/4"*	31	43350	2	Carriage Bolt 3/8-16 x 1"
2	44326	8	Carriage Bolt 5/16-18 x 1"	32	43003	6	Spring Lock Washer 3/8"
3	43064	14	Hex Lock Nut 5/16-18"*	33	43082	6	Hex Lock Nut 3/8-16"*
4	43081	4	Washer 5/16 Std. Wrt.*	34	43343	9	Hairpin Cotter 1/8"
5	23863	1	Blade - 42"	35	43407	1	Hex Bolt 3/8-16 x 3/4"
6	23070	2	Shoe	36	43087	1	Hex Bolt 3/8-16 x 1-1/4"
7	23117	1	Wear Plate 42"	37	43070	3	Washer 3/8 Std. Wrt.*
8	62870	1	Reinf. Plate Ass'y.	38	43019	2	Hex Jam Nut 1/2-13*
9	23131	1	Special Pivot Bolt	40	43055	2	Hairpin Cotter 3/32"*
10	43262	1	Hex Lock Nut 1/2-13*	41	43086	6	Spring Lock Washer 5/16"
11	43349	2	Spring Pin 1/4 x 1"	42	23747	2	Connecting Link
12	62550	1	Channel Ass'y.	43	23624	2	Keeper Plate
13	23855	1	Pivot Plate Ass'y.	44	23625	3	Pivot Bushing
14	23130	1	Spring Mount Bracket	45	23631	1	Lift Arm Link
15	43263	1	Adjustment Spring	46	43737	1	Rope
16	44043	1	Hex Bolt 5/16-18 x 3-1/4" (Special)	47	62766	1	Hitch Plante Bracket
17	43083	8	Hex Nut 5/16-18*	48	R74760716	2	Hex Bolt 7/16-14 x 1"*
18	43081	1	Washer 5/16 Std., Wrt.*	50	43555	2	Spring Lock Washer 7/16"*
19	43331	1	Plastic Cap	51	R73220700	2	Hex Nut 7/16-14"*
20	23151	1	Angle Lock Bar (short)	52	44056	2	Clevis Pin 1/2 z 1" (Special)
21	23129	1	Angle Lock Bar (long)	54	1540-118	3	Washer 7/16
22	23660	1	Hitch Plate, R.H.	55	43001	2	Hex Bolt 3/8-16 x 1..*
23	23659	1	Hitch Plate, L.H.	56	44283	4	Bolt, Hex 5/16-18 x 1" (Thd. Cutting)
24	23661	2	Lift Mount Angle	57	44137	2	Washer, Flat .51 x .990 x .020 Thk.
25	23662	2	Lift Pivot Plate	58	23775	1	Connecting Link
26	62551	1	Lift Ass'y.	59	23856	1	Spring Mount Rod
27	62565	1	Guide Brk's Ass'y.	60	23122	1	Pivot Shaft
28	43010	2	Cotter Pin 1/8 x 1"	61	44917	2	Palnut, 3/8"
29	43348	1	Angle Lock Spring		45060	1	Owner Manual
30	43351	1	Hex Bolt 1/2-13 x 1-1/4"*				

\*Purchase common hardware locally.

Sears, Roebuck and Co. reserves the right to make any changes in design or improvements without imposing any obligation to install the same upon its items heretofore manufactured.

## Attachments That Add to the Usefulness of Your Craftsman Tractor

Sears offers a wide variety of attachments that fit your tractor. Many of these are listed below with brief explanations of how they can help you. This list was current at the time of publication: however, it may change in future years — more attachments may be added, changes (including changes in the stock number) may be made in these attachments, or some may be available.

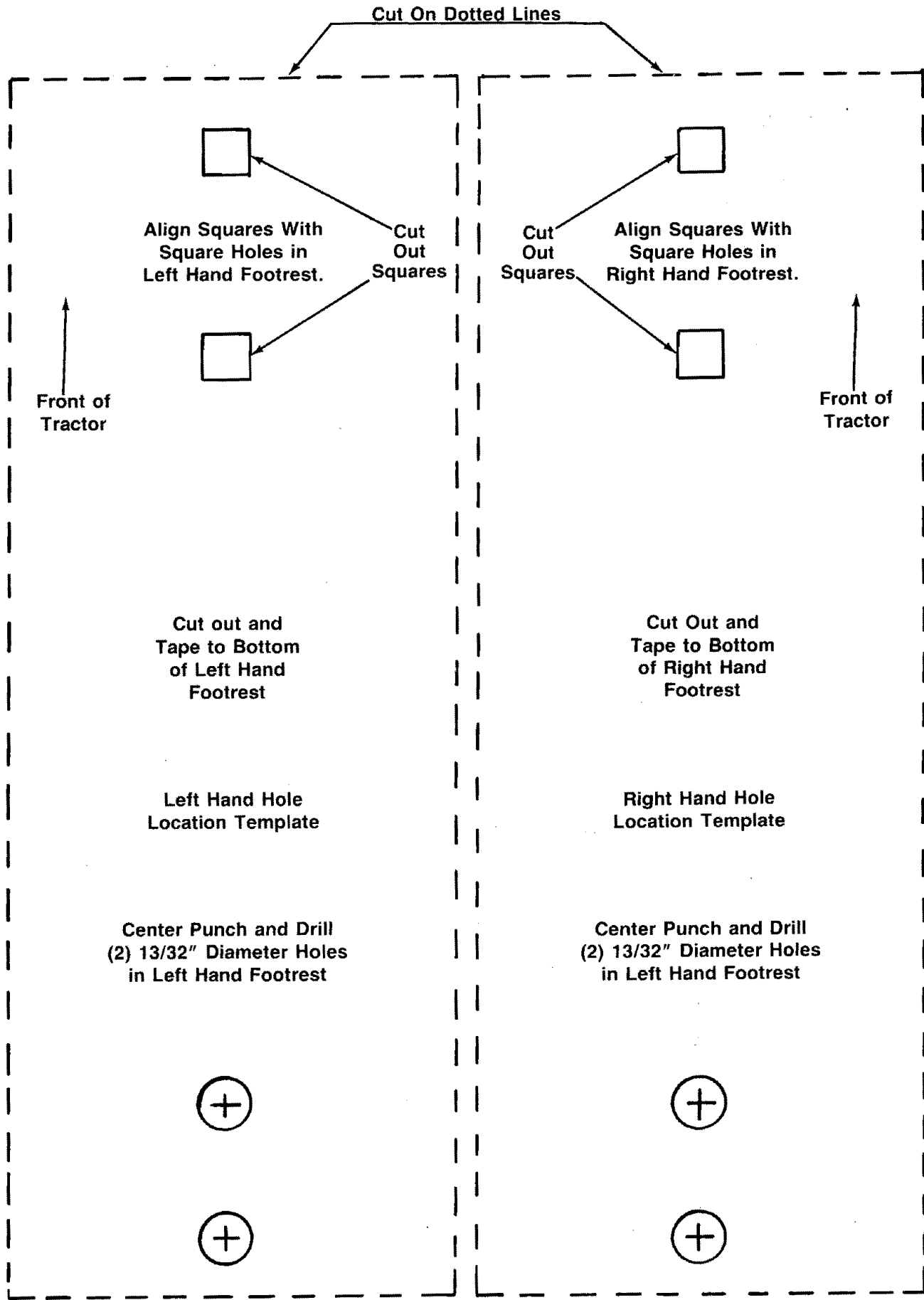
Most of these attachments do not require additional hitches or conversion kits (those do are indicated) and are designed for easy attaching and detaching. You may order these attachments at most Sears retail stores, catalog sales offices, and through the catalog.

**TIRE CHAINS** are heavy duty, closely-spaced with extra-large cross links that give a smooth ride and outstanding traction.

**WHEEL WEIGHTS** for rear wheels provide needed traction for snow removal or dozing heavy materials.

Weight (each)	Fits
30 lb.	Lawn Tractors with 8 in. rims
33 lb.	Lawn or Yard Tractors with 10-in rims

A mounting bracket is available to mount one 55 pound weight on the rear of your tractor frame for added traction.



# **SEARS**

## **owners manual**

### **Model No.**

**486.244031**

**42"**

### **SNOW BLADE**

### **How to Order Repair Parts**

## **42" SNOW BLADE**

Always mention the Model Number when requesting service or repair parts for your Snow Blade.

All parts listed herein may be ordered from any Sears Service Center and most Sears stores.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

- THE PART NUMBER
- THE PART DESCRIPTION
- THE MODEL NUMBER
- THE NAME OF MERCHANDISE

If the parts you need are not stocked locally, your order will be electronically transmitted to a Sears Repair Parts Distribution Center for handling.

## **LIMITED ONE YEAR WARRANTY ON 42" SNOW BLADE**

For one year from date of purchase, when this Snow Blade is maintained and lubricated according to the operating and maintenance instructions in the owner's manual, Sears will repair free of charge any defect in material or workmanship.

If this Snow Blade is used for commercial or rental purposes, this warranty applies for only 90 days from the date of purchase.

This warranty does not cover:

- repairs necessary because of operator abuse or negligence, including the failure to maintain the equipment according to instructions contained in the owner's manual.

WARRANTY SERVICE IS AVAILABLE BY RETURNING IT TO THE NEAREST SEARS SERVICE CENTER/DEPARTMENT IN THE UNITED STATES.

This warranty applies only while this product is in use in the United States.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Sears, Roebuck and Co. D/731CR-W, Sears Tower, Chicago, IL 60684

**Sears, Roebuck and Co., Chicago, Ill. 60684 U.S.A.**