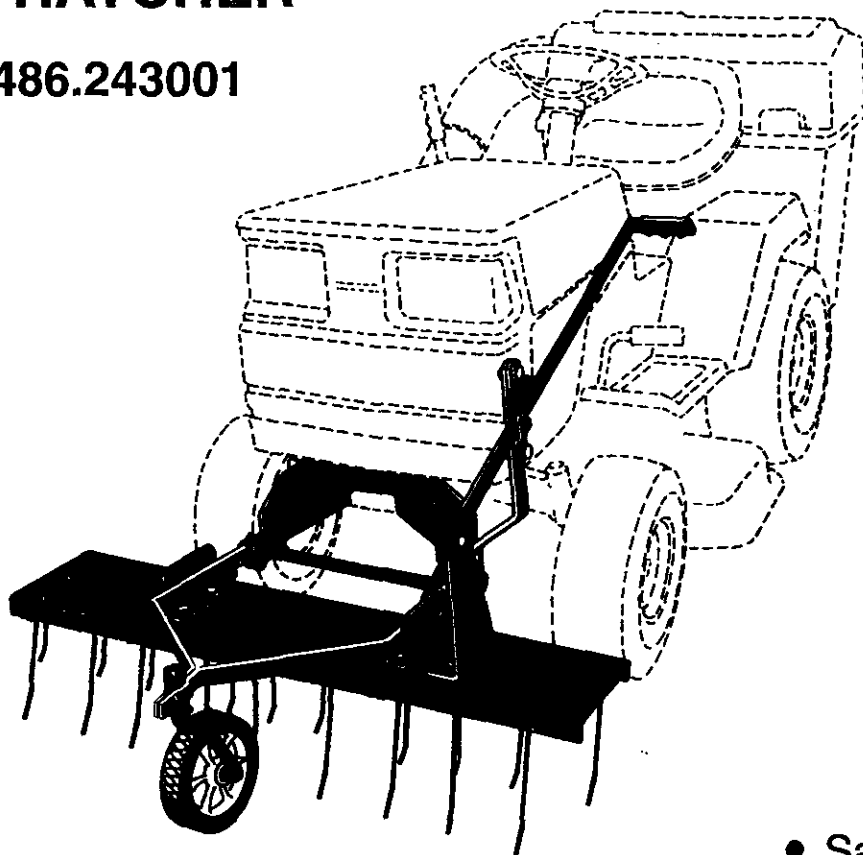


**CRAFTSMAN®**

**40" FRONT MOUNT  
TINE DETHATCHER**

**Model No. 486.243001**



**CAUTION:**

Before using this product, read this manual and follow all Safety Rules and Operating Instructions.

- Safety
- Assembly
- Operation
- Maintenance
- Parts

**IMPORTANT - READ THIS FIRST!!!**

For Missing Parts or Assembly Questions

Please Call 217-728-8388

Mon.-Fri. 7 am - 5 pm CST.

FAX 217-728-2032 or e-mail [info@agri-fab.com](mailto:info@agri-fab.com)

Missing parts will be sent UPS in 24 hours directly to your home.

Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A.

[www.sears.com/craftsman](http://www.sears.com/craftsman)

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## WARRANTY

### LIMITED ONE YEAR WARRANTY ON

For one year from the date of purchase, when this dethatcher is maintained and lubricated according to the operating and maintenance instructions in the owner's manual, Sears will repair any defect in material or workmanship free of charge. If this dethatcher 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 negligence or abuse, including the failure to maintain the equipment according to instructions contained in the owner's manual.

WARRANTY SERVICE IS AVAILABLE BY CONTACTING THE NEAREST SEARS SERVICE CENTER/DEPARTMENT IN THE UNITED STATES.

This warranty applies only while this product is 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/817 WA. Hoffman Estates, Chicago, IL 60179

<p>The model number and serial numbers will be found on a decal attached to the dethatcher.</p> <p>You should record both the serial number and the date of purchase and keep in a safe place for future reference.</p>	<table style="width: 100%; border: none;"> <tr> <td style="width: 70%;">MODEL NUMBER:</td> <td style="border-bottom: 1px solid black;">486.243001</td> </tr> <tr> <td>SERIAL NUMBER:</td> <td style="border-bottom: 1px solid black;">_____</td> </tr> <tr> <td>DATE OF PURCHASE:</td> <td style="border-bottom: 1px solid black;">_____</td> </tr> </table>	MODEL NUMBER:	486.243001	SERIAL NUMBER:	_____	DATE OF PURCHASE:	_____
MODEL NUMBER:	486.243001						
SERIAL NUMBER:	_____						
DATE OF PURCHASE:	_____						



## SAFETY



Any power equipment can cause injury if operated improperly or if the user does not understand how to operate the equipment. Exercise caution at all times, when using power equipment.

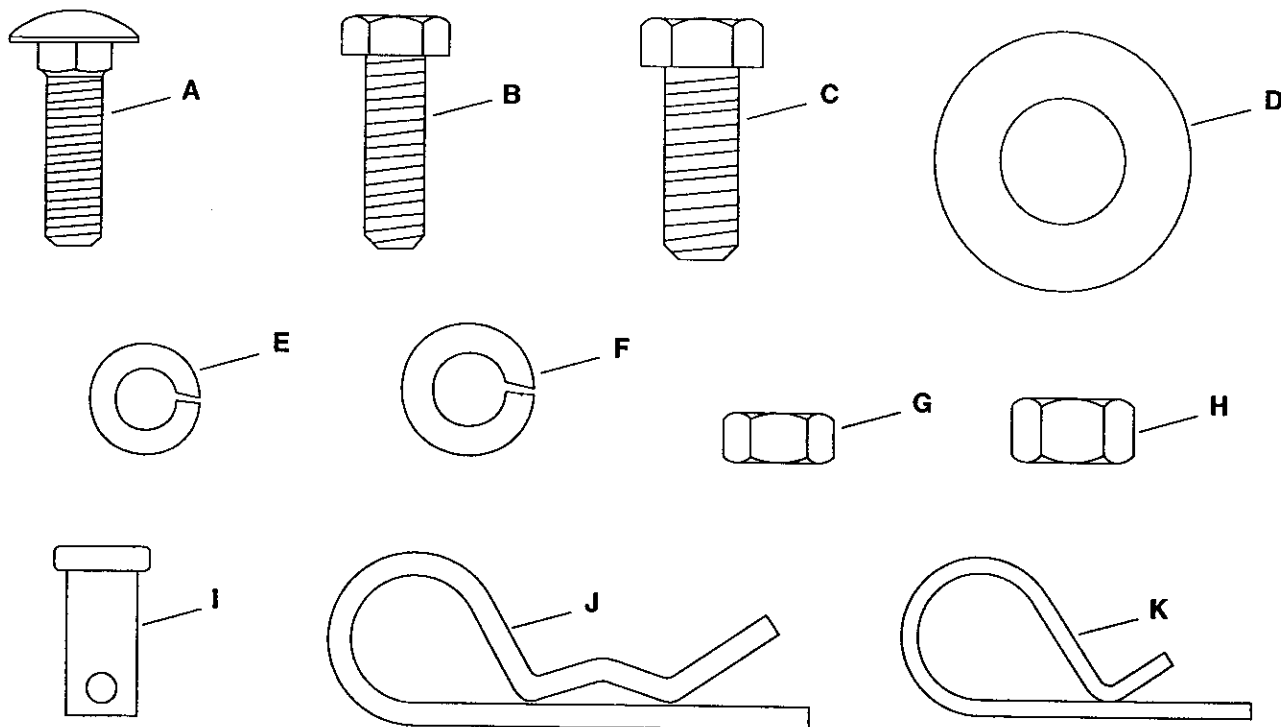
- Read safety rules in the vehicle owners manual and know how to operate your equipment, before using the tine dethatcher.
- Never operate vehicle and tine dethatcher attachment without wearing substantial footwear, and do not allow anyone to ride or sit on the tine dethatcher.
- Never allow children to operate the tractor or dethatcher attachment, and do not allow adults to operate without proper instructions.
- Eye Protection should be worn when operating the tine dethatcher.
- Always begin with transmission in first (low) gear, and gradually increase speed as conditions permit. Recommended maximum operating speed is 3 M.P.H.
- Always stop vehicle and lift dethatcher to transport position before making short turns.
- When de-thatching do not drive too close to a creek or ditch and be alert for holes and other hazards which could cause you to lose control of the vehicle.
- Before operating vehicle on any grade (hill) refer to the safety rules in the vehicle owners manual concerning safe operation on slopes. **STAY OFF STEEP SLOPES.**
- This equipment is not meant for street or highway use. Watch for traffic when de-thatching near highways.
- Vehicle and attachments should be stopped and inspected for damage after striking a foreign object.
- Check all nuts, bolts and screws frequently making sure they are tight and the equipment is in safe working condition.
- Follow the maintenance instructions as outlined in this owners manual.



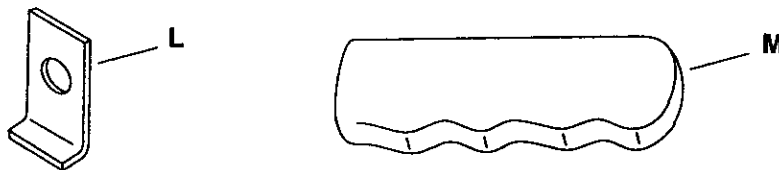
Look for this symbol to point out important safety precautions. It mean--**Attention!! Become alert!! Your safety is involved.**

# HARDWARE PACKAGE CONTENTS

## SHOWN FULL SIZE



## NOT SHOWN FULL SIZE

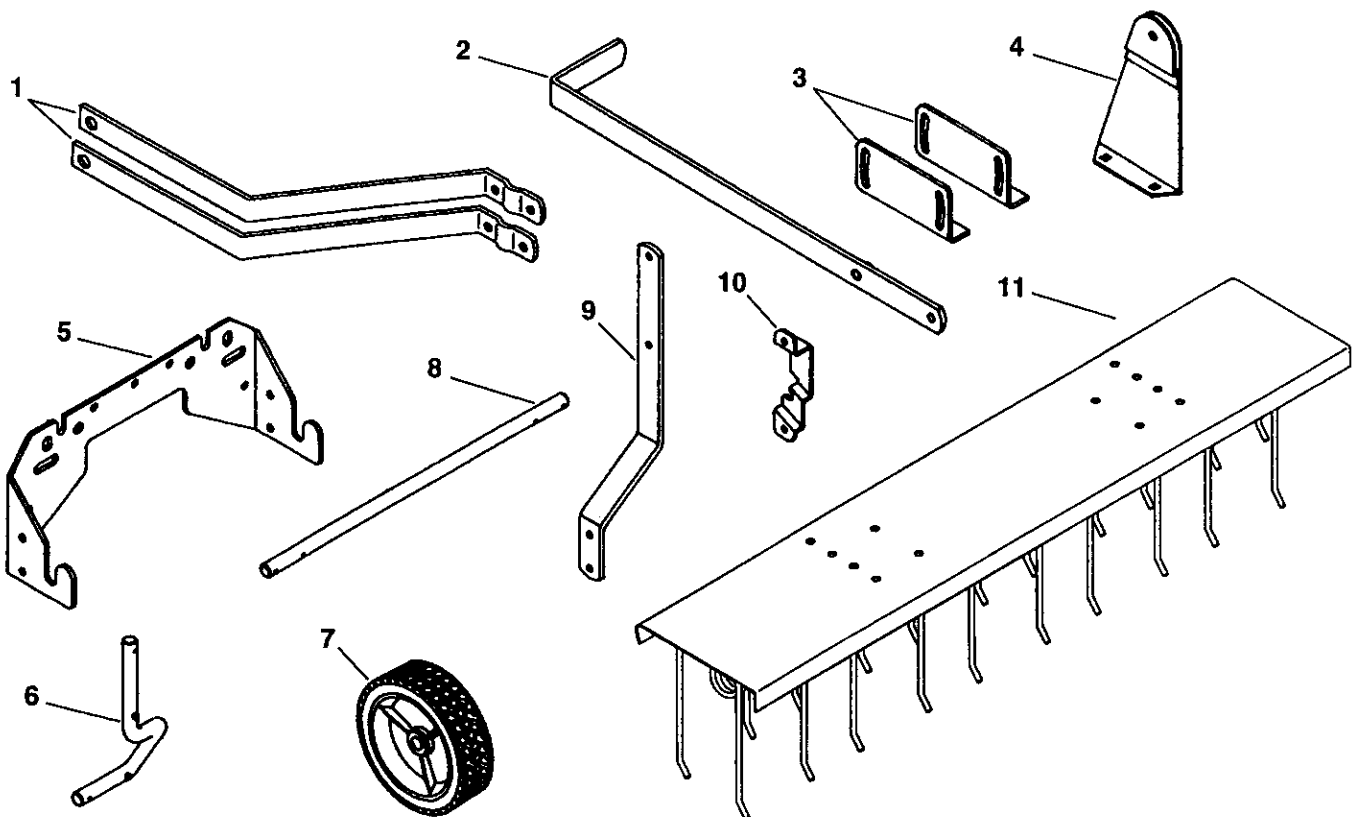


Key	Qty	Description	Key	Qty	Description
A	12	Carriage Bolt, 5/16-18 x 1" Lg.	G	14	Hex Nut, 5/16-18 Thd.
B	2	Hex Bolt, 5/16"-18 x 1" Lg.	H	4	Hex Nut, 3/8-16 Thd.
C	4	Hex Bolt, 3/8-16 x 1" Lg.	I	1	Clevis Pin, 3/8" x 3/4"
D	4	Flat Washer, 5/8" SAE.	J	6	Hairpin Cotter, 1/8" (large)
E	14	Lock Washer, 5/16"	K	1	Hairpin Cotter, 3/32" (small)
F	4	Lock Washer, 3/8"	L	2	Keeper Plate
			M	1	Handle Grip

# ASSEMBLY

## CARTON CONTENTS

1. Mounting Arms (2)
2. Lift Handle
3. Angle Mounting Brackets (2)
4. Lift Handle Bracket
5. Hitch Bracket
6. Axle
7. Wheels (2)
8. Mounting Shaft
9. Lift Handle Arm
10. Handle Lock Bracket
11. Tine Shield



Stop engine and let muffler cool before attempting to install dethatcher hitch brackets.

## TOOLS REQUIRED FOR ASSEMBLY

- (2) 1/2" Wrenches
- (2) 9/16" Wrenches

## REMOVAL OF PARTS FROM CARTON

- Remove all parts and hardware packages from the carton. Lay out all parts and hardware and identify using the illustrations on pages 3 and 4.

## REMOVAL OF PARTS FROM TRACTOR

- Remove any front mounted attachments which may be installed on your tractor.
- Mark all loose parts and save for reassembly.

# ASSEMBLING DETHATCHER

- Assemble handle lift bracket to forward set of holes on left end of tine shield. Use two 5/16" x 1" carriage bolts, 5/16" lock washers and 5/16" hex nuts. **Tighten.** See figure 1.

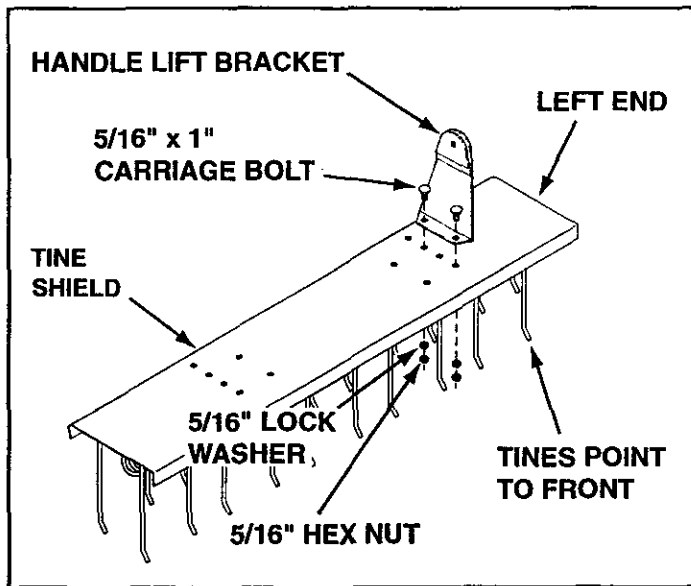


FIGURE 1

- Assemble angle mounting brackets to tine shield using four 5/16" x 1" carriage bolts, 5/16" lock washers and 5/16" hex nuts. **Tighten.** See figure 2.

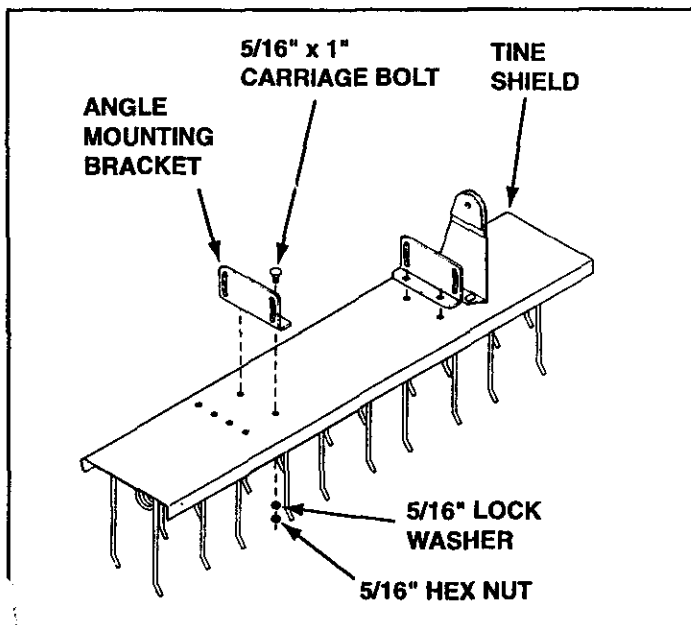


FIGURE 2

- Assemble mounting arms to inside of angle mounting brackets using four 5/16" x 1" carriage bolts, 5/16" lock washers and 5/16" hex nuts. **Do not tighten** until dethatcher is mounted to tractor. See figure 3.
- Loosely assemble front ends of mounting arms together using two 3/8" x 1" hex bolts, 3/8" lock washers and 3/8" hex nuts. Place axle bushing between front ends of mounting arms, centering bushing up and down. **Tighten bolts securely** in front ends of mounting arms. See figure 3.

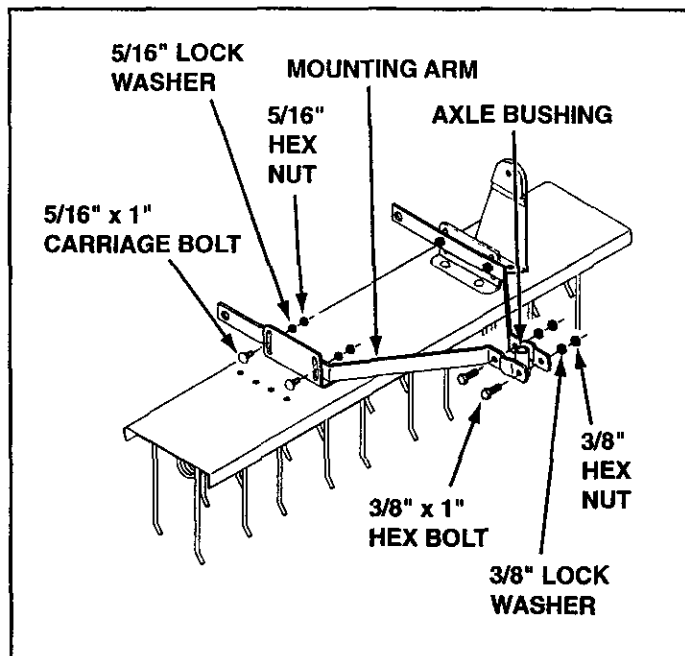


FIGURE 3

- Apply a light coating of oil to the axle.
- Assemble a 21/32" washer, the wheel (long end of hub first) and another 21/32" washer onto axle. Secure with a 1/8" hairpin cotter. See figure 4.

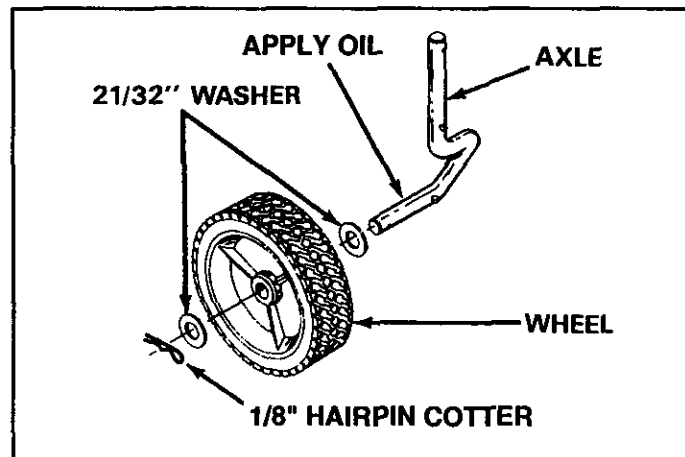


FIGURE 4

- Assemble a 21/32" washer onto axle. Insert axle up through axle bushing. Assemble another 21/32" washer onto axle and secure with a 1/8" hairpin cotter. See figure 5.

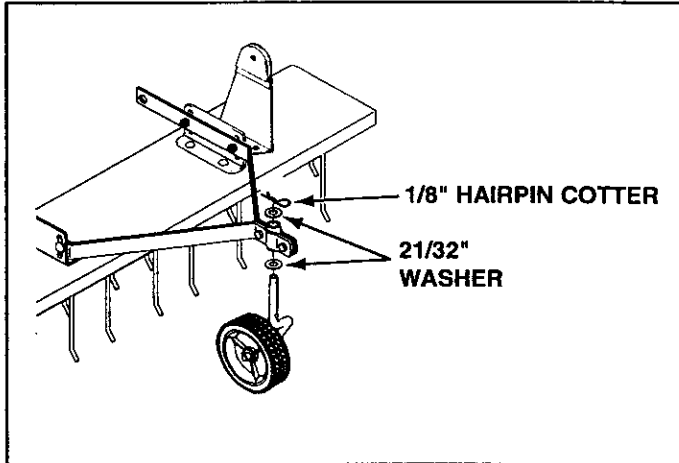


FIGURE 5

- Assemble a 1/8" hairpin cotter to one end of mounting shaft. Insert other end of mounting shaft through holes in both mounting arms, assembling two keeper plates (as shown) onto shaft between arms. Secure mounting shaft to mounting arms with a (large) 1/8" hairpin cotter in end of shaft. See figure 6.

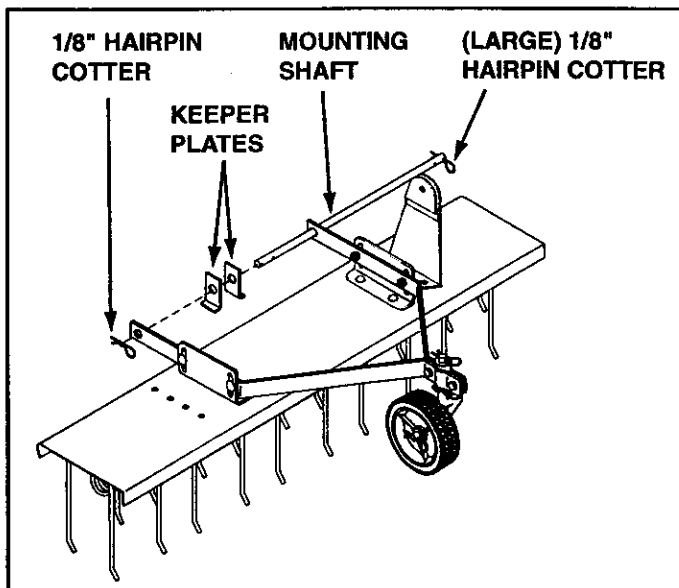


FIGURE 6

## ATTACHING DETHATCHER TO TRACTOR

- Remove two self threading bolts from front cross-member of tractor. Assemble bolts through lower slots in hitch bracket, then reinstall them back into front crossmember. (Make sure notches at top of hitch bracket and crossmember are aligned.) See figure 7.
- From behind tractor's front crossmember, insert two 3/8" x 1" hex bolts through holes in crossmember (shown in figure 7) and through upper slots in hitch bracket. Secure with two 3/8" lockwashers and two 3/8" hex nuts.

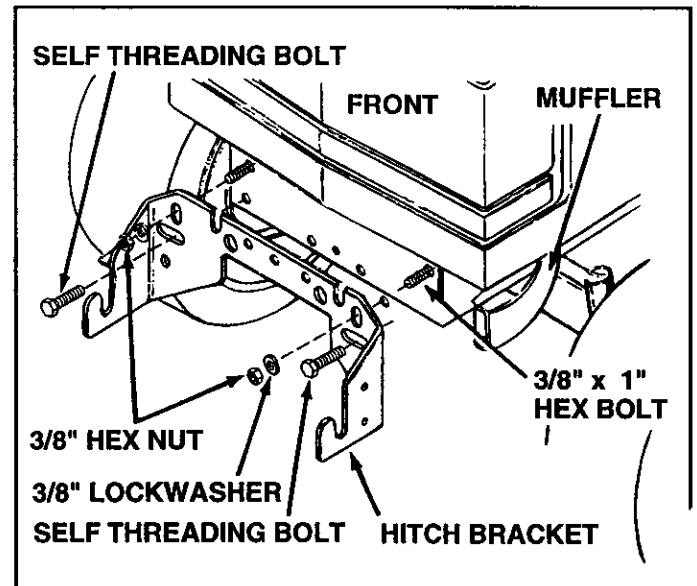


FIGURE 7

- Assemble handle lock bracket to lift handle arm using two 5/16" x 1" carriage bolts, 5/16" lock washers and 5/16" hex nuts. See figure 8.

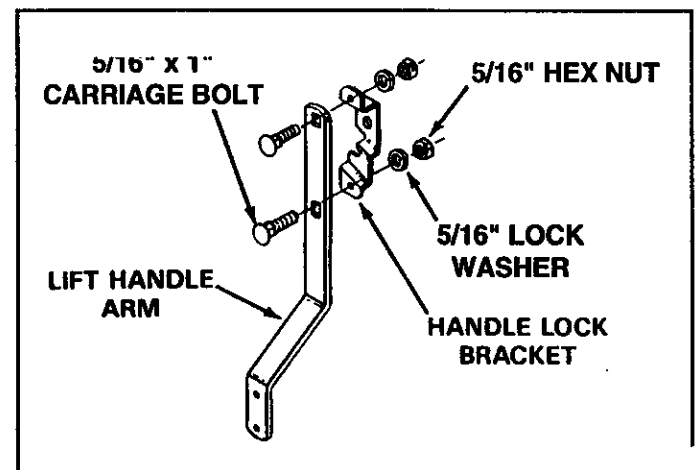


FIGURE 8

- Assemble lift handle arm to left side of hitch bracket using two 5/16" x 1" hex bolts, 5/16" lock washer and 5/16" hex nuts. See figure 9.

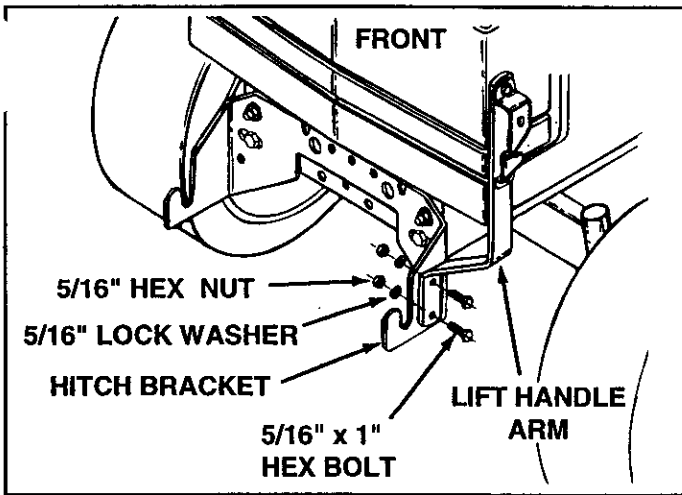


FIGURE 9

- Slide keeper plates toward center of mounting shaft. Attach assembled dethatcher to hitch plate by placing mounting shaft into slots at front of hitch plate. See figure 10.

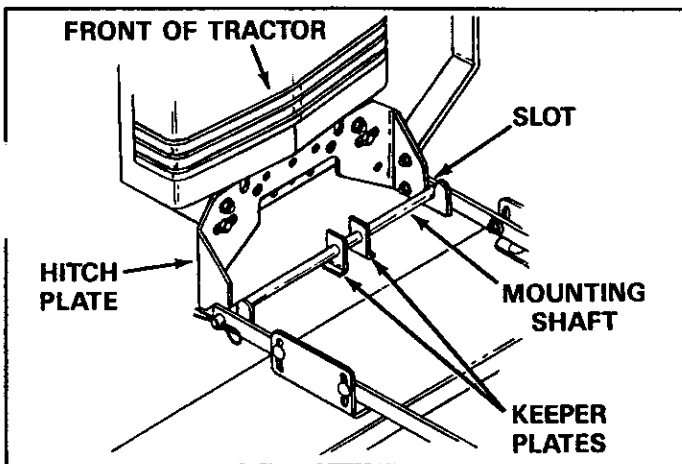


FIGURE 10

- Slide one keeper plate to each side of mounting shaft with lip under hitch plate and secure with 1/8" (large) hairpin cotter. See figure 11.

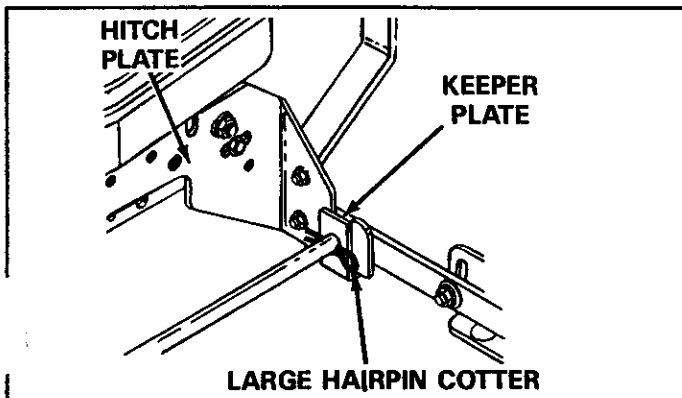


FIGURE 11

- Install vinyl grip on lift handle as shown in figure 12.
- Slide lift handle down between lift handle arm and handle lock bracket. See figure 12.
- Assemble lift handle to lift handle bracket using 3/8" x 3/4" clevis pin and 3/32" (small) hairpin cotter. See figure 12.

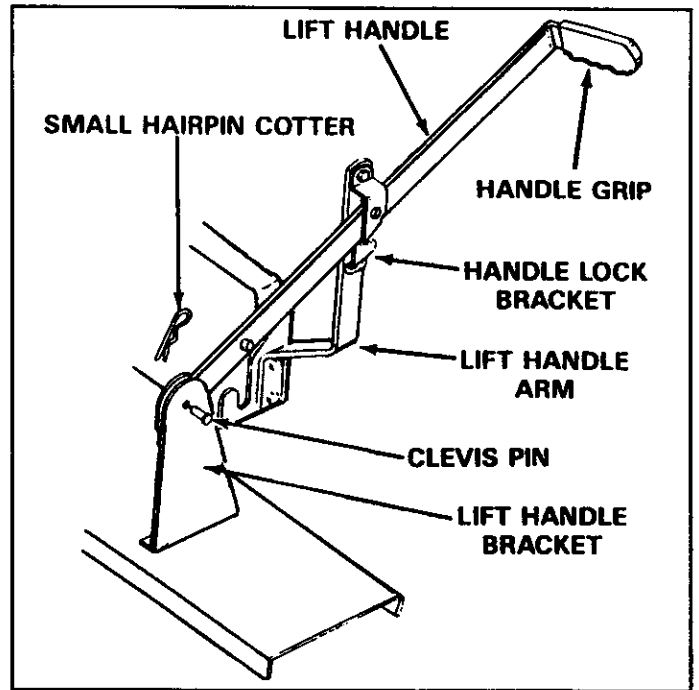


FIGURE 12

- Raise and lock dethatcher in transport position (see operation instructions on page 8). Move tractor with front mounted dethatcher onto a level surface, such as a drive or garage floor. Lower the tine dethatcher from transport position to rest on the level surface.
- Adjust tine shield until spring tines come in contact with level surface, keeping front and back tines at the same height. Tighten mounting arm carriage bolts in angle brackets to lock in adjustment. See figure 13.
- If you need more adjustment, try moving the axle bushing up or down between the mounting arms. Be sure to retighten the bolts securing the bushing.

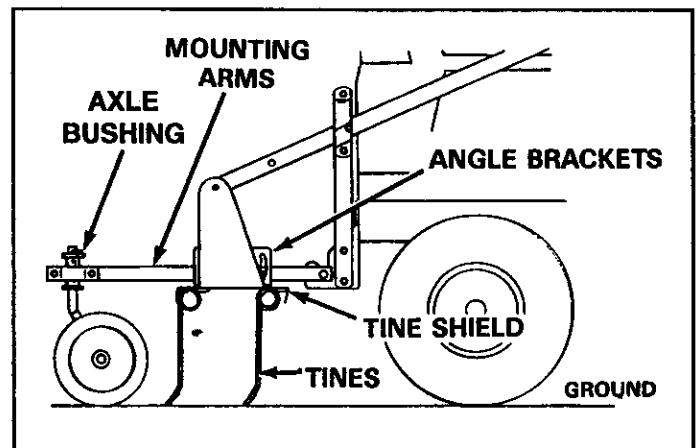
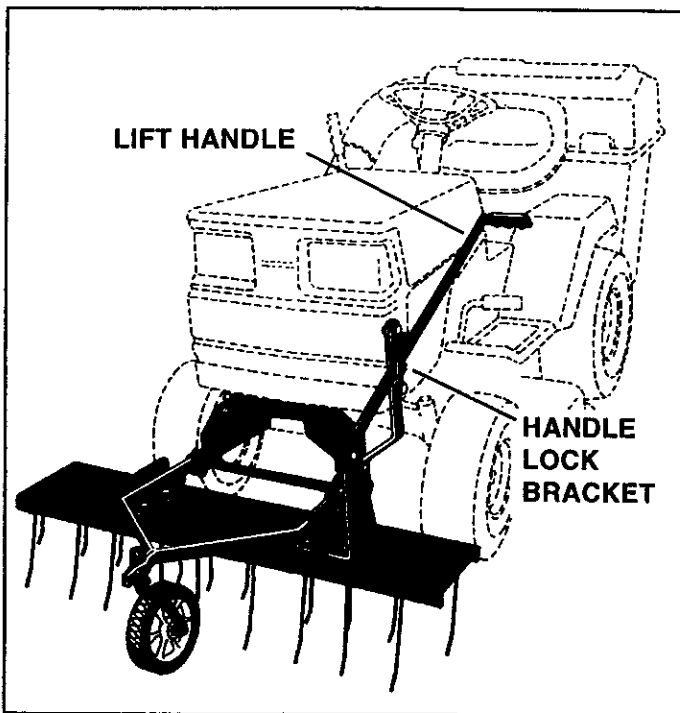


FIGURE 13

## KNOW YOUR DETHATCHER



### LIFT HANDLE

Raises and lowers dethatcher.

### HANDLE LOCK BRACKET

Locks lift handle in raised transport position.

## HOW TO USE YOUR DETHATCHER

### To raise dethatcher to transport position:

- Pull lift handle back so that stud in handle is pulled past handle lock bracket. Push down and forward on handle so that stud falls into notch on handle lock bracket to lock in position. See figure 14.

### To lower dethatcher to work position:

- Pull back and up on handle to release stud from notch in handle lock bracket. Lower by holding up on handle and pushing forward, allowing stud to pass through lock bracket. See figure 14.

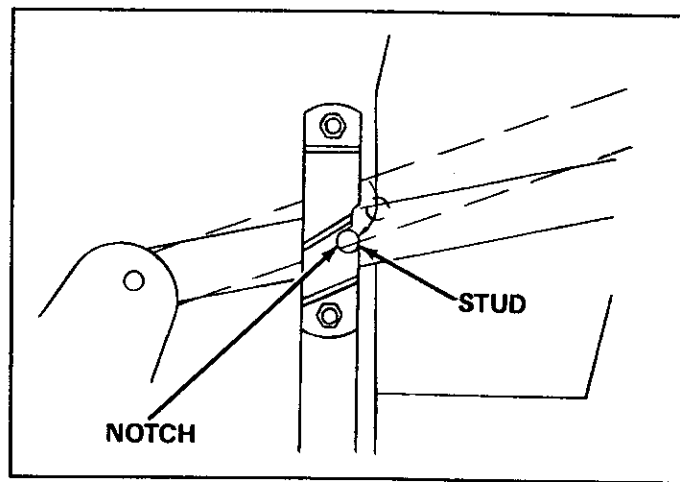


FIGURE 14

## OPERATING TIPS

De-thatching is recommended for early spring, late fall and prior to fertilizing. It is not recommended to de-thatch with every mowing of the lawn. The tine dethatcher can be easily removed for storage (Maintenance/Storage).

- Always begin with transmission in first (low) gear, and gradually increase speed as conditions permit.
- The tine dethatcher is designed to pull up dead grass in your lawn. Do not attempt to use dethatcher in field mowing.
- For best results, use a "criss-cross" pattern on your lawn.
- Vary vehicle speed to determine speed for best thatching action.
- The front and rear tines should be kept level. Refer to figure 13 on page 7.
- Stop vehicle and lift dethatcher to transport position when making sharp turns.



# MAINTENANCE/STORAGE

## CUSTOMER RESPONSIBILITIES

Read and follow the maintenance schedule and the maintenance procedures listed in this section.

MAINTENANCE SCHEDULE Fill in dates as you complete regular service.	Service Dates											
	Before each use	After each use	Every season	Before storage								
Check for loose fasteners	X											
Lubrication	X											

## CHECK FOR LOOSE FASTENERS

- Before each use check all nuts and bolts for tightness. Tighten loose fasteners before using.

## LUBRICATION

- Before each use apply a small amount of motor oil between washer and wheel bearing and between washer and top of pivot sleeve. See figure 15.

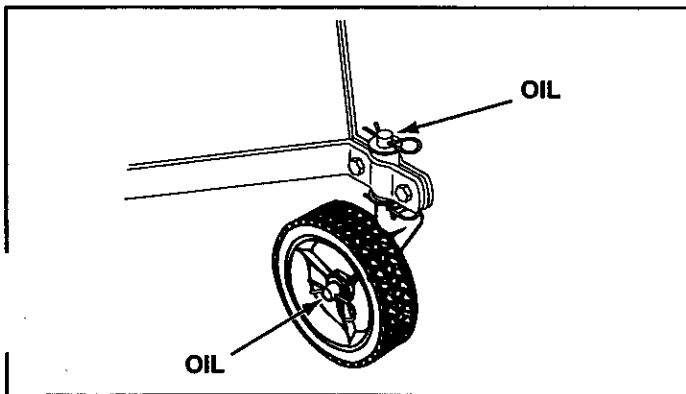


FIGURE 15

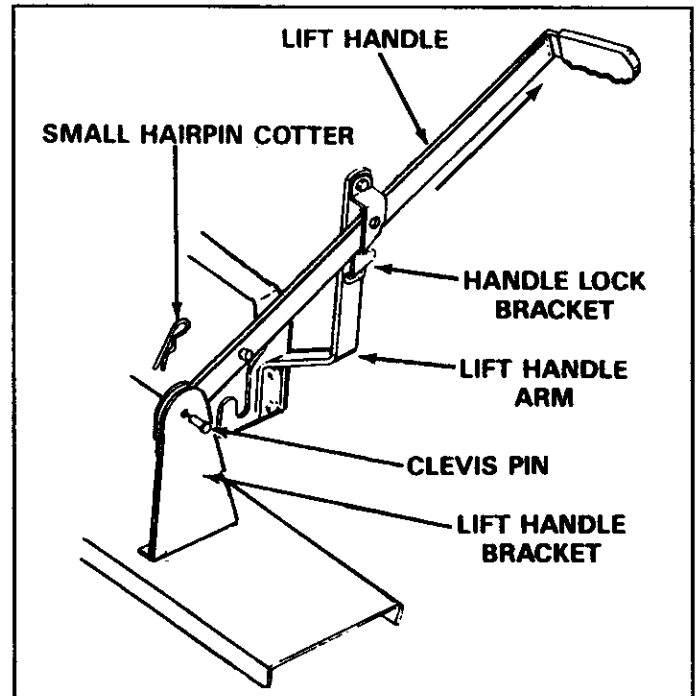


FIGURE 16

## STORAGE

- Always store in a dry area, and coat spring tines with light oil when not in use.

## TO REMOVE DETHATCHER FROM TRACTOR

(Refer to figure 16).

- Lower dethatcher to ground.
- Remove 3/32" (small) hairpin cotter and 3/8" x 3/4" clevis pin from lift handle. Remove handle from handle lift bracket.
- Slide lift handle out between lift handle arm and handle lock bracket.

(Refer to figure 17).

- Remove the two inside 1/8" (large) hairpin cottes from mounting shaft and slide keeper plates to center of mounting shaft. Reinsert hairpin cottes through small holes in mounting shaft for storage.
- Lift dethatcher assemble from hitch bracket.

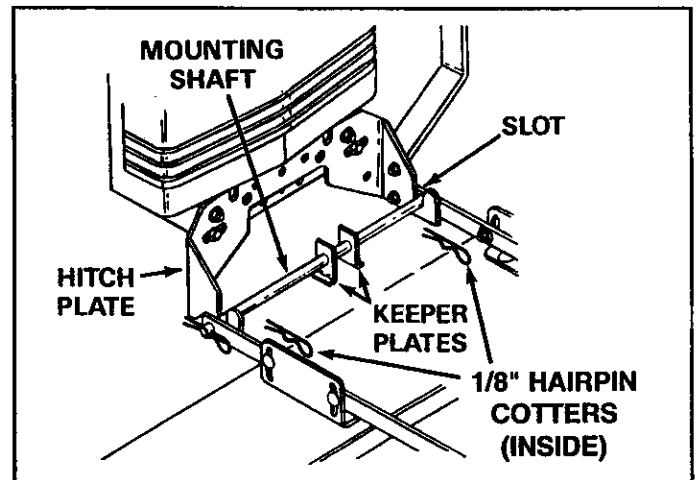


FIGURE 17

## Leveling the dethatcher

- Move tractor with front mounted dethatcher onto a level surface, such as a drive or garage floor.
- Lower dethatcher from transport position to rest on level surface.
- Loosen carriage bolts through mounting arms and angle brackets. (Refer to figure 3 on page 5.)
- Adjust tine shield until spring tines come in contact with level surface, keeping front and back tines at same height. Tighten mounting arm carriage bolts on top of dethatcher shield to lock adjustment. See figure 18.
- If you need more adjustment, try moving the axle bushing up or down between the mounting arms. Be sure to retighten the bolts securing the bushing. See figure 18.

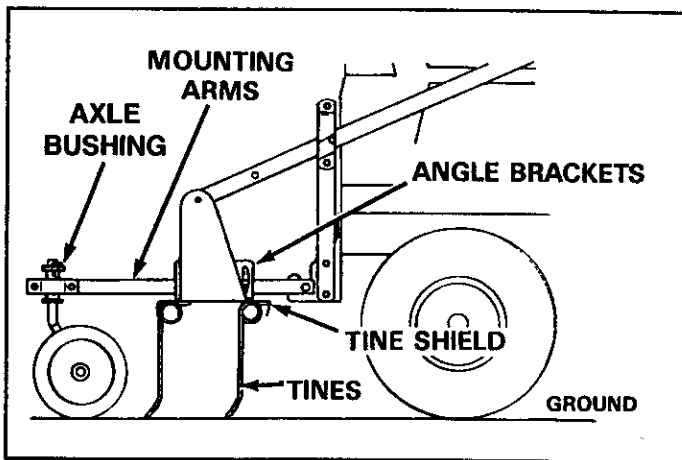


FIGURE 18

- To replace a spring tine:
  - a. Insert a screw driver or punch into hole and pry locking tab out from center loop of spring tine.
  - b. Remove old spring tine from pocket.
  - c. Slide a new spring tine into pocket. Insert a screw driver or punch into hole and bend down locking tab until it wedges inside center loop of spring tine. See figure 19.

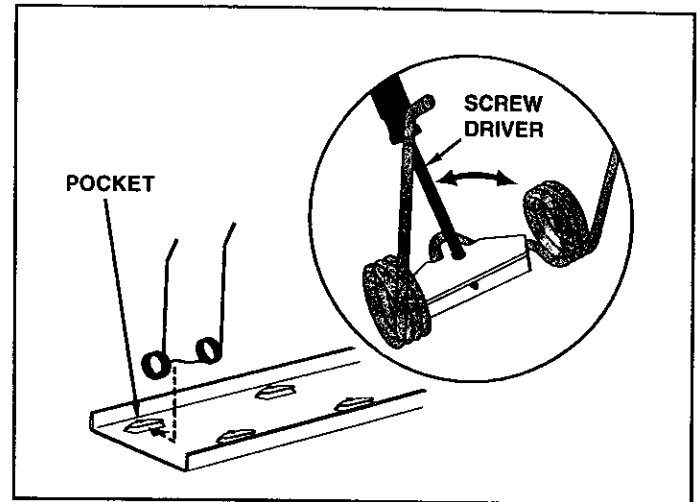
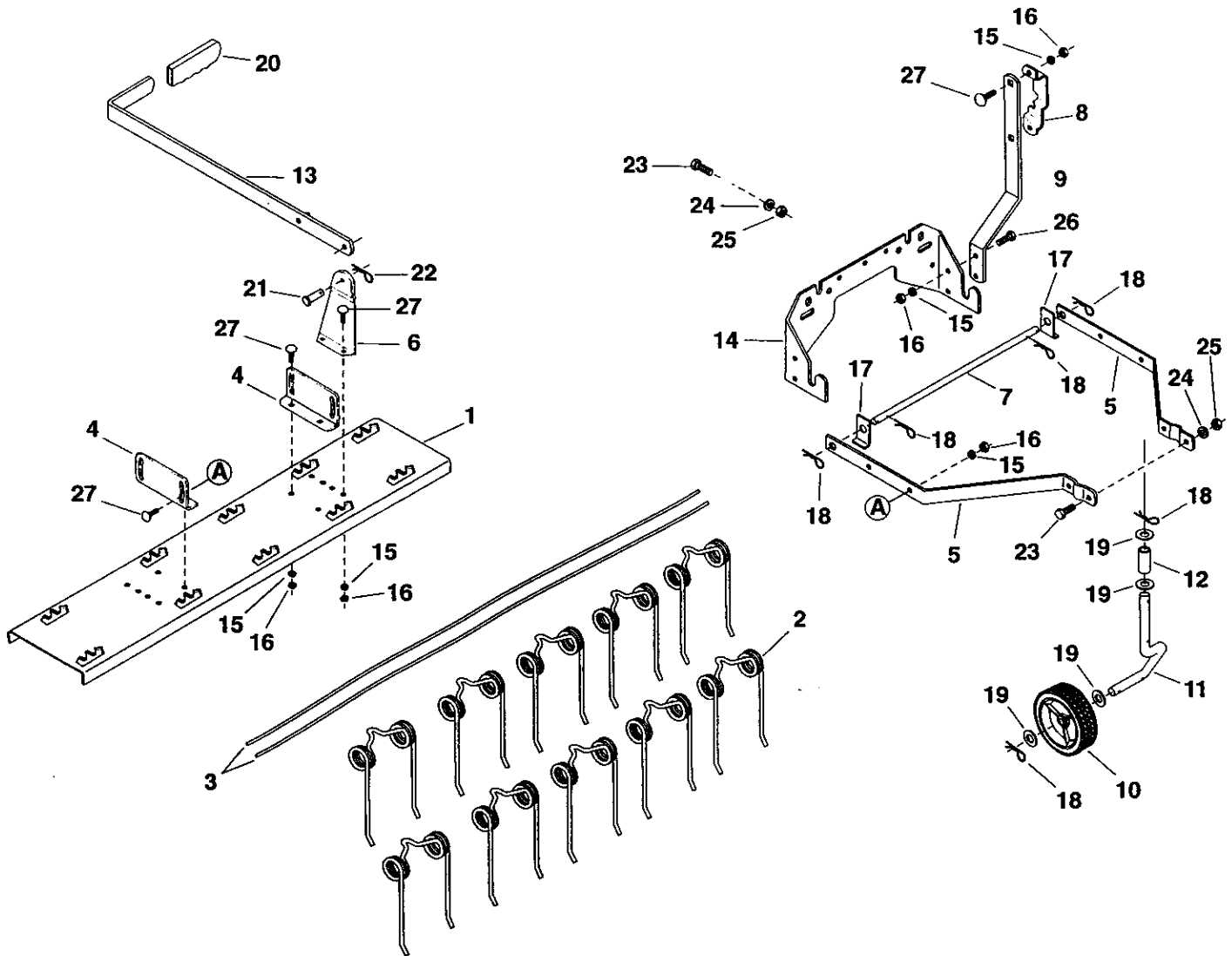


FIGURE 19

# PARTS

## 40" TINE DETHATCHER MODEL 486.243001



REF. NO.	PART NO.	QTY.	DESCRIPTION	REF. NO.	PART NO.	QTY.	DESCRIPTION
1	24874	1	Tine Shield	15	43086	14	Lock Washer, 5/16"
2	43783	10	Spring Tine	16	43083	14	Hex Nut, 5/16-18
3	47633	2	Wire, Spring Alignment	17	23676	2	Keeper Plate
4	23666	2	Angle Mount Bracket	18	43343	6	Hairpin Cotter, 1/8"
5	24876	2	Mounting Arm	19	R19212113	4	Flat Washer, 5/8"
6	62601	1	Lift Handle Bracket	20	43943	1	Plastic Grip
7	24877	1	Mounting Shaft	21	44044	1	Clevis Pin, 3/8" x 3/4"
8	23673	1	Handle Lock Bracket	22	43055	1	Hairpin Cotter, 3/32"
9	24043	1	Lift Handle Arm	23	43001	4	Hex Bolt, 3/8-16 x 1"
10	44213	1	Wheel	24	43003	4	Lock Washer, 3/8"
11	44148	1	Pivot Axle	25	43015	4	Hex Nut, 3/8-16
12	23668	1	Bushing	26	43063	2	Hex Bolt, 5/16-18 x 1"
13	62600	1	Lift Handle	27	44326	12	Carriage Bolt, 5/16-18 x 1"
14	23675	1	Hitch Bracket		48391	1	Owner's Manual

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