

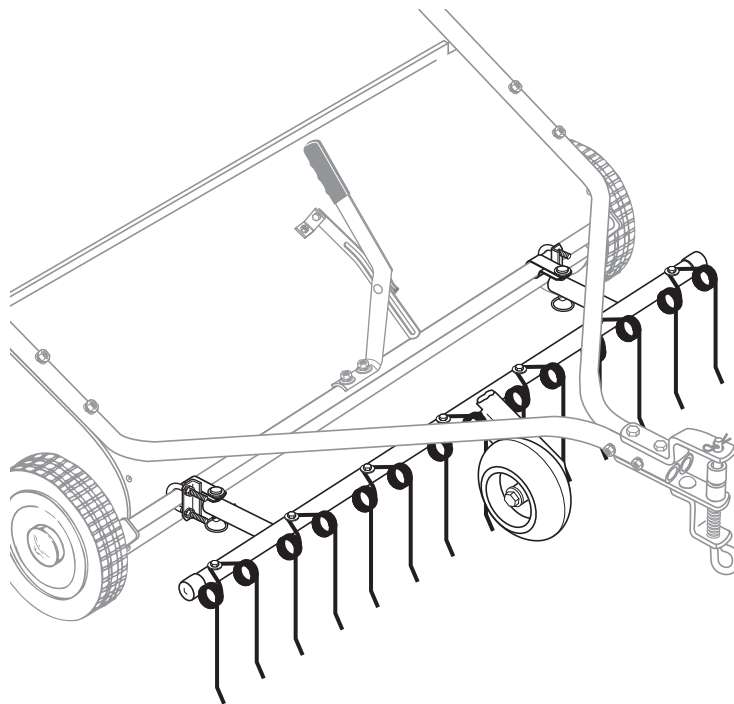
Owner's Manual



DETHATCHER FOR SWEEPERS

Model No. 486.24219

DO NOT RETURN TO STORE
For Missing Parts or Assembly
Questions Call 1-866-576-8388



CAUTION:

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

- Safety
- Assembly
- Operation
- Maintenance
- Parts

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

SAFETY RULES.....	2	OPERATION.....	6
FULL SIZE HARDWARE CHART.....	3	MAINTENANCE/STORAGE.....	6
CARTON CONTENTS.....	4	REPAIR PARTS.....	7
ASSEMBLY.....	4	PARTS ORDERING/SERVICE.....	Back Page

WARRANTY

ONE YEAR FULL WARRANTY

When operated and maintained according to the instructions supplied with it, if this Dethatcher fails due to a defect in material or workmanship within one year from the date of purchase, call 1-800-4-MY-HOME® to arrange for free repair (or replacement if repair proves impossible).

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

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

Sears, Roebuck and Co., D817WA, Hoffman Estates, IL 60179

The model number and serial numbers will be found on a decal attached to the dethatcher. You should record both the serial number and the date of purchase and keep in a safe place for future reference.	MODEL NUMBER: 486.24219 SERIAL NUMBER: _____ DATE OF PURCHASE: _____
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SAFETY



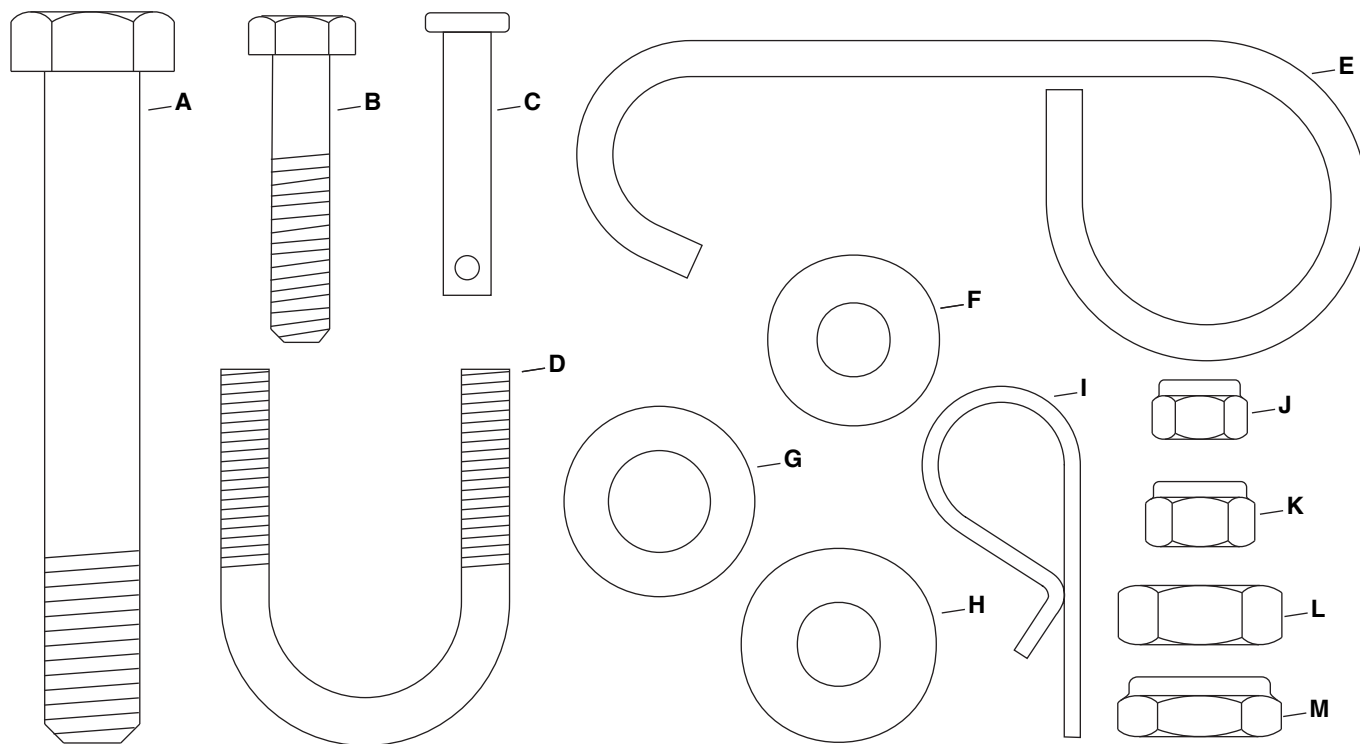
Any power equipment can cause injury if operated improperly or if the user does not understand how to operate the equipment. Exercise caution at all times, when using power equipment.

- Read this owners manual carefully for operating and service instructions before attempting to assemble or operate the dethatcher. Be thoroughly familiar with the proper use of the dethatcher.
- Read the vehicle owners manual and vehicle safety rules, and know how to operate the vehicle before using the dethatcher.
- Read the lawnsweeper owners manual and safety rules, and know how to operate the lawnsweeper before using the dethatcher.
- Never allow children to operate the tractor or dethatcher attachment, and do not allow adults to operate without proper instructions.
- This dethatcher attachment has sharp tine points. Always handle with care and wear substantial foot wear when operating this dethatcher.
- Do not allow anyone to ride or sit on the dethatcher, lawnsweeper or towing vehicle.
- Keep the area of operation clear of all persons, particularly small children, and also pets.
- Always begin with the transmission in first (low) gear and engine at low speed, and gradually increase speed as conditions permit.
- Vehicle braking and stability may be affected with the attachment of this equipment. Be aware of changing conditions on slopes. Refer to safety rules in the vehicle owner's manual concerning safe operation on slopes. **STAY OFF OF STEEP SLOPES.**
- Always operate up and down a slope, never across the face of a slope
- This equipment should be operated at reduced speed on rough terrain, along creeks and ditches and on hillsides, to prevent tipping and loss of control. Do not drive too close to a creek or a ditch.
- Follow the maintenance instructions as outlined in this owners manual.

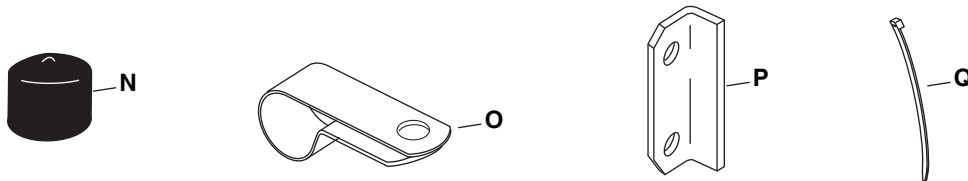
	Look for this symbol to point out important safety precautions. It means — Attention!! Become alert!! Your safety is involved.
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HARDWARE PACKAGE CONTENTS

SHOWN FULL SIZE



NOT SHOWN FULL SIZE

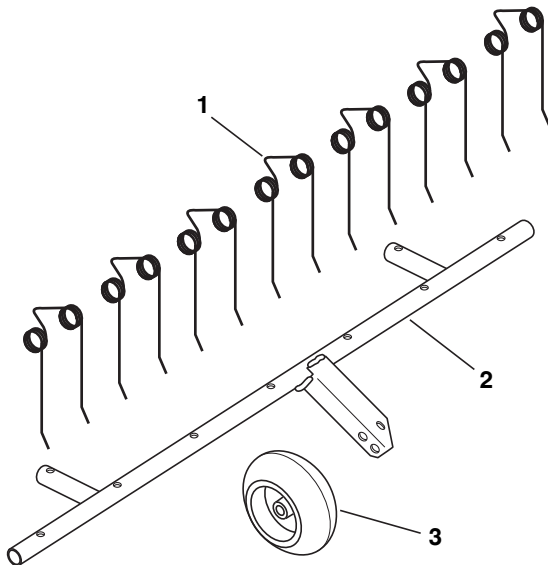


REF.	QTY.	DESCRIPTION	REF.	QTY.	DESCRIPTION
A	1	Hex Bolt, 1/2" x 3-1/2"	J	4	Hex Nut, 1/4"
B	7	Hex Bolt, 5/16" x 1-1/2"	K	7	Hex Nut, 5/16"
C	2	Clevis Pin, 5/16" x 1-3/8"	L	1	Jam Nut, Plain 1/2"
D	2	U-Bolt	M	1	Jam Nut, Nylock 1/2"
E	1	Transport Hook	N	2	Vinyl Cap
F	2	Washer, 5/16"	O	2	Conduit Clamp
G	2	Washer, 1/2"	P	2	Keeper Bracket
H	14	Washer, 3/8"	Q	1	Nylon Tie
I	2	Hair Cotter Pin, 3/32"			

ASSEMBLY

CARTON CONTENTS

1. Spring Tines (7)
2. Frame Assembly
3. Gauge Wheel



NOTE: On sweepers smaller than 42", use only five spring tines.

- Assemble a vinyl cap onto each end of the frame tube. See figure 1.

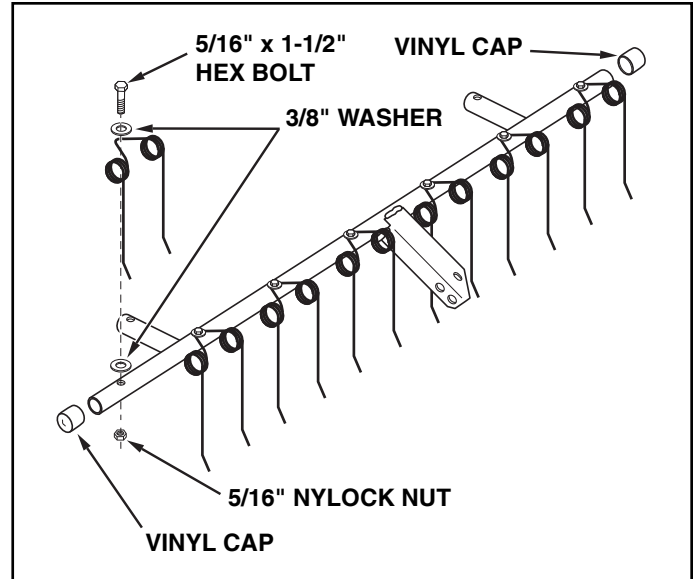


FIGURE 1

TOOLS REQUIRED FOR ASSEMBLY

- (1) 7/16" Wrench
- (2) 1/2" Wrenches
- (2) 3/4" or Adjustable Wrenches
- (1) Knife

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.
- Turn the frame assembly as shown in figure 1.
- Assemble seven spring tines to the top of the frame tube. Use a 5/16" x 1-1/2" hex bolt, two 3/8" flat washers and a 5/16" nylock nut for each spring tine. Place one 3/8" flat washer on top of the frame tube and the second 3/8" flat washer on top of the spring tine. See figure 1.

- Assemble a 1/2" washer, the wheel, another 1/2" washer and the 1/2" plain jam nut onto the 1/2" x 3-1/2" hex bolt. See figure 2.
- Insert the bolt through the welded bracket and assemble the 1/2" nylock jam nut onto the bolt. Adjust the nuts so that there is no end play in the wheel and then tighten the nuts securely against the welded bracket. Make sure the wheel still turns freely. See figure 2.

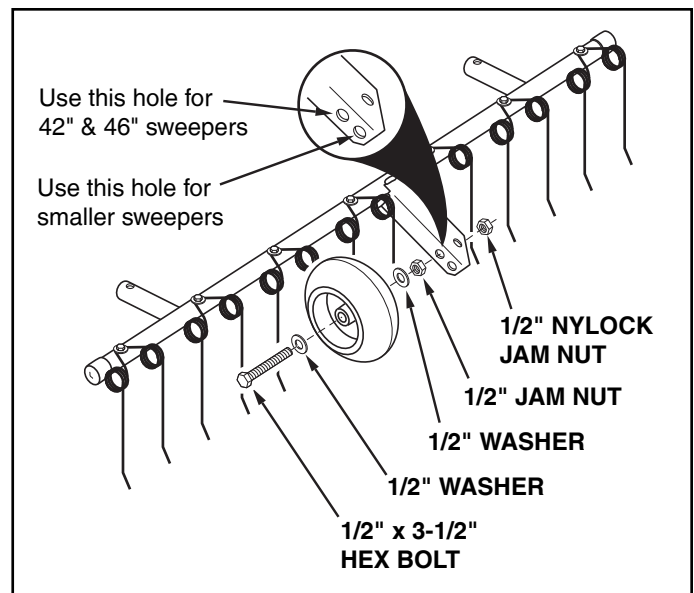


FIGURE 2

- Assemble a conduit clamp onto each end of the sweeper height adjustment tube so that the straight part of the clamp is on top of the tube. See figure 3.
- Remove the hitch brackets and the bolts, if present, from the ends of the sweeper's hitch tubes. Slide the transport hook onto the L.H. hitch tube as shown in figure 3.
- Reassemble the hitch brackets and bolts to the hitch tubes. Refer to your sweeper owner's manual.

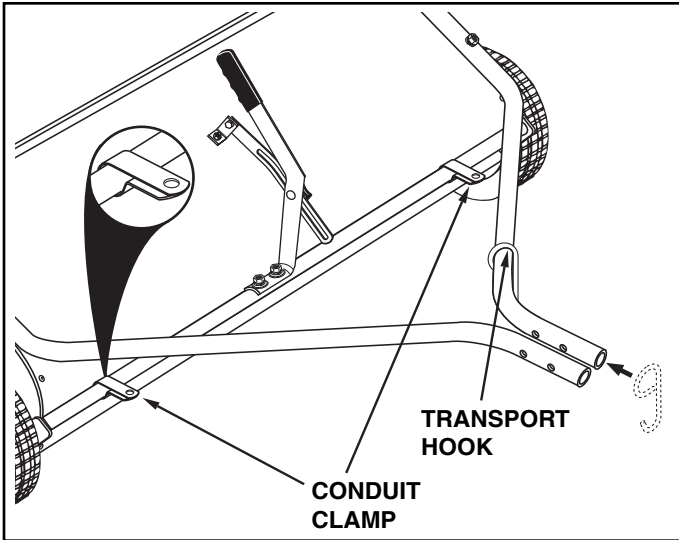


FIGURE 3

- Connect the sweeper to the tractor. Set the sweeper height adjustment handle to about the middle of its adjustment range.
- Place the dethatcher in front of the sweeper housing, underneath the hitch tubes.
- Connect the dethatcher to the conduit clamps using two 5/16" x 1-3/8" clevis pins, 5/16" washers and 3/32" hair cotter pins. See figure 4.

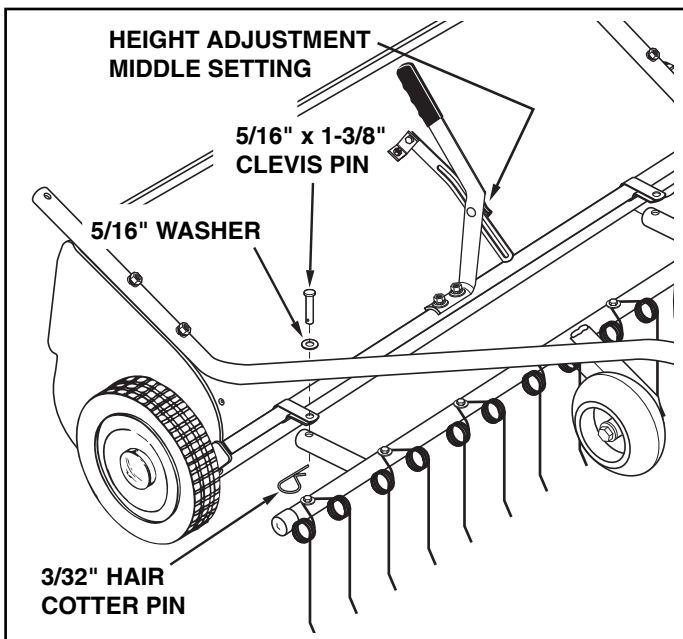


FIGURE 4

If you have a 30" sweeper, skip these steps.

- Make sure the sweeper height adjustment handle is still set to about the middle of its adjustment range.
- Center the dethatcher with the sweeper.
- Assemble the keeper brackets (bend to the inside) to the sweeper's hitch tube, outside of the conduit clamps. Use a u-bolt and two 1/4" nylock nuts per bracket. Position the keeper brackets against the sides of the conduit clamps, approximately perpendicular to the ground. Tighten the nuts without bending the keeper brackets. See figure 5.

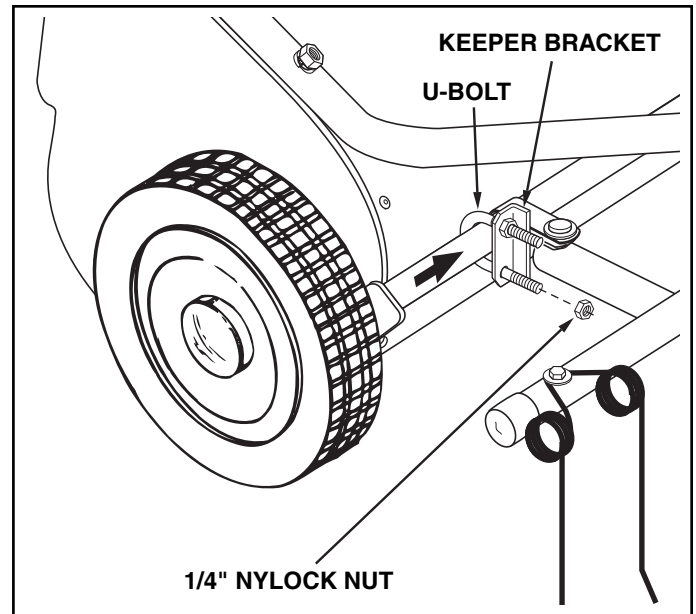


FIGURE 5

- Lift the front of the dethatcher and secure it in transport position using the transport hook. See figure 6.
- To keep the transport hook from sliding back along the hitch tube, you can fasten the supplied nylon tie around the hitch tube behind the transport hook. See figure 6.

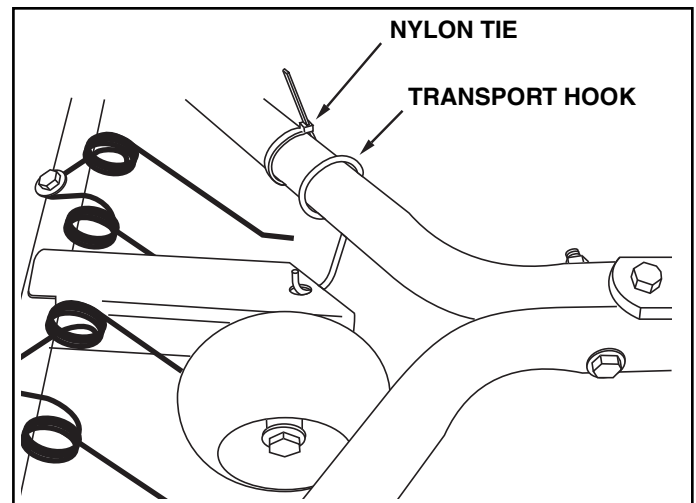


FIGURE 6

OPERATION

HOW TO USE YOUR DETHATCHER

RAISING/LOWERING THE DETHATCHER

- To raise the dethatcher for transport, lift up on the front of the dethatcher and secure it with the transport hook. Lower the dethatcher by releasing the transport hook.

SETTING THE OPERATING POSITION

- The operating height of the dethatcher is controlled by the gauge wheel at the front of the dethatcher and is not adjustable. The correct wheel position was determined in figure 2 when you assembled the wheel.
- Set the sweeper to the desired operating height. (The best height is usually with the brushes set about 1/2" down into the grass.) Refer to your sweeper owner's manual for sweeper.

USING THE DETHATCHER

Regular removal of thatch is critical to the maintenance of a healthy lawn. Thatch is layer of stems, clippings, runners, roots and leaves that have not decayed. Excessive thatch prevents air, water and fertilizer from reaching the roots. The dethatcher will effectively dislodge excessive thatch from your lawn.

- Start with the tractor in low gear. Vary the forward speed to determine the best speed for maximum dethatcher performance.
- Use a crisscross pattern to achieve the most even removal of thatch.
- On slopes, always operate in an up and down direction only.
- Avoid extremely sharp turns.
- Avoid towing the dethatcher across sudden steep dips in the ground while dethatching. Loss of ground contact with the gauge wheel could cause the dethatcher to be pulled back underneath the sweeper.

MAINTENANCE / STORAGE

CUSTOMER RESPONSIBILITIES

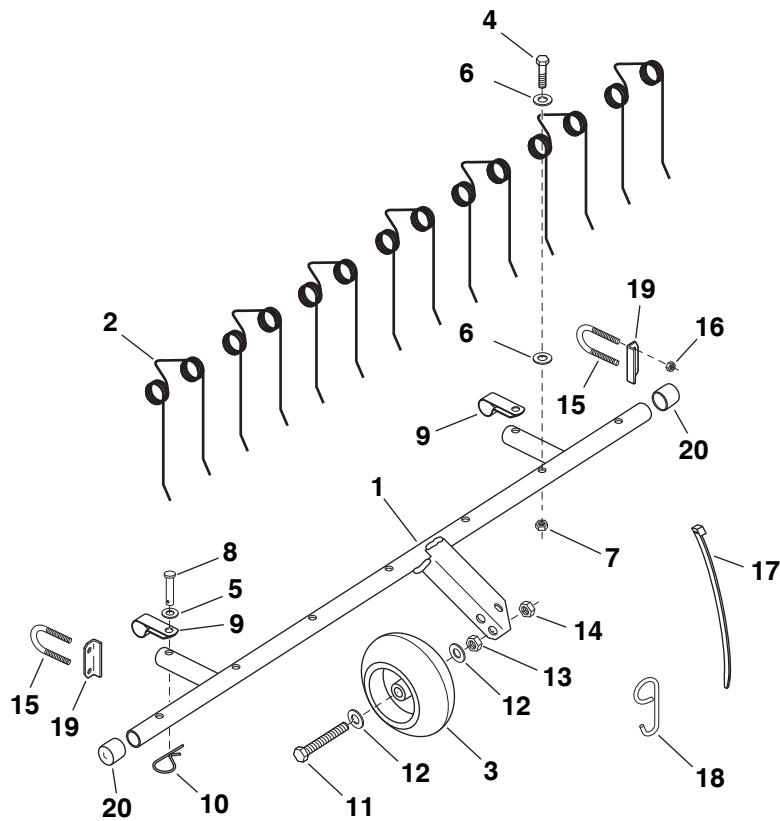
- Read and follow the maintenance schedule and the maintenance procedures listed in this section.

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												
Check for worn or damaged parts	X			X									
Cleaning		X		X									

- Before each use, check all nuts and bolts for tightness.
- Clean after each use to help prevent rust.
- If rust appears on the spring tines, sand lightly and coat with enamel paint.
- Always store in a dry area, and coat exposed metal with light oil when not in use.

PARTS

REPAIR PARTS FOR MODEL 486.24219 DETHATCHER



REF. NO.	PART NO.	QTY.	DESCRIPTION	REF. NO.	PART NO.	QTY.	DESCRIPTION
1	64650	1	Spring Mount Frame Assem.	12	R19171616	2	Washer, 1/2"
2	46761	7	Spring Tine	13	43019	1	Jam Nut, Plain 1/2-13
3	48098	1	Gauge Wheel	14	48115	1	Jam Nut, Nylock 1/2-13
4	43085	7	Hex Bolt, 5/16-18 x 1-1/2"	15	48813	2	U-Bolt, 1/4-20
5	43081	2	Washer, 5/16"	16	43178	4	Nylock Nut, 1/4-20
6	43070	14	Washer, 3/8"	17	726-0178	1	Nylon Tie
7	43083	7	Nylock Nut, 5/16-18	18	48811	2	Hook, Transport
8	48812	2	Clevis Pin, 5/16" x 1-3/8"	19	25054	2	Bracket, U-Bolt Clamp
9	47413	2	Clamp	20	44481	2	Vinyl Cap
10	43055	2	Hair Cotter Pin, 3/32"		48830	1	Owner's Manual
11	44025	1	Hex Bolt, 1/2-13 x 3-1/2"				

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